

APPLICATIONS FOR ADMISSION AND FOR TRANSFER

The Constitution provides that the Board of Direction shall elect or reject all applicants for *Admission* or for *Transfer*, and, in order to determine justly the eligibility of each candidate, the Board must depend largely upon the Membership for information.

This list is issued to members in every grade for the purpose of securing all such available information, and every member is urged to scan carefully each monthly list of candidates and to furnish the Board with data in regard to any applicant which may aid in determining his eligibility. It is the *Duty* of all *Members* to the *Profession* to assist the Board in this manner.

It is especially urged, in communications concerning applicants, that errors in the record be pointed out and a *Definite Recommendation as to the Proper Grading in Each Case* be given, inasmuch as the grading must be based upon the opinions of those who know the applicant personally, as well as upon the nature and extent of his professional experience. If facts exist derogatory to the personal character or to the professional reputation of an applicant, they should be promptly communicated to the Board. *Communications Relating to Applicants are considered by the Board as Strictly Confidential.*

The Board of Direction will not consider the applications herein contained from residents of North America until the expiration of thirty (30) days, and from non-residents of North America until the expiration of ninety (90) days from December 1, 1927.

MINIMUM REQUIREMENTS FOR ADMISSION

Grade	General Requirement	Age	Length of Active Practice	Responsible charge of work
Member	Qualified to design as well as to direct work	32 years	12 years*	5 years
Associate Member	Qualified to direct work	25 years	8 years*	1 year
Junior	Qualified for sub-professional work	18 years†	4 years*	
Affiliate	Qualified by scientific acquirements or practical experience to co-operate with engineers			
Fellow	Contributor to the permanent funds of the Society			

* Graduation from a school of engineering of recognized reputation is equivalent to 4 years' active practice.

† Membership ceases at age of 32 unless transferred to higher grade

LIST OF APPLICANTS.

Names and Addresses of Applicants for Admission and for Transfer on this Preliminary List,
Arranged Alphabetically.

Name.	Address.	Page.	Name.	Address.	Page.
ABERCROMBIE, WILLIAM F.	East Point, Ga.	389	McGOVERN, JOHN J., Jr.	Whitestone, N. Y.	398
AEGERTER, WILLIAM C.	Kalamazoo, Mich.	412	MARSHALL, HARRY A.	Topeka, Kans.	398
ALLEN, JEAN M.	Chicago, Ill.	407	MILLER, AARON G.	Pittsburgh, Pa.	399
BAKER, GEORGE F.	Dayton, Ohio.	389	MILLER, CHARLES T.	St. Joseph, Mo.	399
BARNES, GEORGE E.	P. Cabezas, Nicaragua	413	MILLER, FRANK W.	Allentown, Pa.	414
BENFORD, WILLIAM R.	Providence, R. I.	389	MILLER, ROGER L.	Lebanon, Pa.	399
BERGHOLM, AXEL O.	Jersey City, N. J.	389	MONAMY, ANDRE R. R.	Boston, Mass.	399
BESWICK, JAMES E.	New Brighton, N. Y.	407	MORRIS, ALBERT W., Jr.	Philadelphia, Pa.	399
BONEYSTEELE, PARKE L.	Oakland, Cal.	390	MORTON, PAUL S.	Alexandria, Va.	399
BONI, OVIDIO A.	Manila, Phil. Islands.	390	MYERS, WALTER D.	Potsdam, N. Y.	400
BONNER, JOHN P.	Beckley, W. Va.	407	NALDER, WILLIAM H.	Denver, Colo.	411
CAMERON, DUGALD J.	New Rochelle, N. Y.	390	OH, MILO F.	Ann Arbor, Mich.	400
CAMPBELL, PHILIP, JR.	New Orleans, La.	390	OLSON, HOWARD O.	Nashville, Tenn.	414
CATTON, MILES D.	Chicago, Ill.	391	O'NEILL, ANDREW S.	Philadelphia, Pa.	400
CHEW, RUSSELL W.	Cranford, N. J.	413	OTT, LEONARD E.	Ozark, Ill.	400
CHILDS, JAMES A.	St. Paul, Minn.	408	PAI, HU-WEI.	Foochow, China.	400
CHRISTENSEN, AAGE B.	Athens, Greece	408	PEDERSON, LOUIS A.	Feoria, Ariz.	401
COLLINS, MERTON C.	Ross, Cal.	408	PEERSON, JOHN W.	Wetumpka, Ala.	401
CRITCHER, WILLIAM H.	Columbus, Ohio.	391	PETERJOHN, CARL F.	Cleveland, Ohio.	401
DAVIDSON, JAMES F.	Riverside, Cal.	391	PEANEUF, VICTOR S.	Nashua, N. H.	401
DAWSON, JOHN S.	Tucson, Ariz.	409	PHYFFE, HERBERT L.	New York City.	401
DERBY, ELLES M.	Brooklyn, N. Y.	391	PLUMMER, FRED L.	Cleveland, Ohio.	401
DIEMER, ROBERT B.	Xicotencatl, Mex.	392	RANDOLPH, CARL L.	Arcadia, Cal.	401
DRAFFIN, JASPER O.	Urbana, Ill.	409	READY, ARTHUR G.	Monroe, La.	414
DREWITT, GEORGE E.	Sydney, Australia.	392	REARDON, JOHN M.	St. Paul, Minn.	402
DURST, ROSS C.	Akron, Ohio.	392	REED, RALPH.	Brooklyn, N. Y.	402
EHLERS, HENRY E.	Philadelphia, Pa.	392	RICE, WILLIAM E.	Cleveland, Ohio.	402
ELLISON, WALTER D.	Ft. Wayne, Ind.	393	ROSS, FRANKLIN W.	Rutherford, N. J.	415
FARRISEE, WILLIAM J.	Potsdam, N. Y.	393	RUCKDESCHEL, C. B.	Philadelphia, Pa.	402
FEHER, FRANCIS.	Cleveland, Ohio.	393	SAMUEL, PHILIP T.	Florence, Ala.	412
FELPS, CLEMENS I.	Topeka, Kans.	393	SAMMARCO, SERGIO F.	Astoria, N. Y.	415
FRAME, WAYNE S.	Columbus, Ohio.	394	SANDERSON, JOHN C.	Evanston, Ill.	403
FULLER, JOE R.	Hartford, Tenn.	394	SAPH, AUGUSTUS V.	Berkeley, Cal.	415
GALLIGAN, WILLIAM E.	Ames, Iowa.	394	SCHREIER, MERRILL K.	Nashville, Tenn.	403
GARMEZY, SAMUEL.	Manila, Phil. Islands.	409	SCHREFFLER, LOVDEN G.	Miami, Fla.	403
GLEASON, GEORGE B.	Alhambra, Cal.	394	SIPPLES, BERNARD J.	Buffalo, N. Y.	403
GLOCK, ALFRED R.	Long Isl. City, N. Y.	395	SNEED, THEO. W.	Osceola, Ark.	404
GOODWIN, ALBERT B.	Gilroy, Cal.	395	SPRAGUE, EMBERT H.	Orono, Me.	404
GOULD, STEPHEN G.	Brookport, Ill.	395	STEVENS, DONALD F.	Cleveland, Ohio.	404
GRAUSTEIN, EDWARD A.	Boston, Mass.	395	STRANDBERG, EDWIN L.	Seattle, Wash.	411
GREENSHIELDS, BRUCE D.	Granville, Ohio.	396	STURM, ROLLAND G.	Urbana, Ill.	404
HALLSTROM, IRVING T.	Seattle, Wash.	396	SWANK, CLYDE E.	Lake City, Fla.	411
HELWIG, AUGUSTINE M.	Wymore, Nebr.	396	TIPPETT, DAVID G.	New York City.	405
HOBBS, MERRILL H.	Port-au-Prince, Haiti.	396	VAN ZANDT, JEROME G.	San Pedro, Cal.	405
HOY, WILLIAM W.	Santa Ana, Cal.	397	VOIGHT, PAUL A.	Ozone Park, N. Y.	405
JORGENSEN, JORGEN K.	Medford, Ore.	413	VOLLMER, ALEXANDER R.	Ventnor City, N. J.	405
KAMINSKY, MORRIS M.	Indianapolis, Ind.	414	WEBER, FREDERICK S.	Alton, Ill.	405
KELLY, FRANCIS J.	Indianapolis, Ind.	397	WEBER, JOSEPH C., Jr.	Rochester, N. Y.	406
KERCHER, HENRY.	Cleveland, Ohio.	410	WELLER, CURTIS D.	Englewood, Mo.	412
KOPPEN, EDWARD C.	M. dford, Ore.	397	WELLS, GEORGE S.	Upper Assam, India.	406
LIEBESKIND, MORRIS M.	ny York City.	414	WERNENTIN, EDWIN G.	Chicago, Ill.	406
LINDQUIST, ERIK G. W.	Stockholm, Sweden.	398	WHITE, WILLIAM E.	Houston, Tex.	406
LIRA MANSO, LEONARDO.	Santhago, Chile.	398	WOOTTEN, ANGUS G.	New York City.	406
MCLAIN, CARL A.	Eugene, Ore.	410			

The fact that applicants give the names of certain members as references does not necessarily mean that such members endorse.

The number in the center above each record indicates the serial number of the applicant for the current year, and that at the left the district in which he resides.

The abbreviations in *Italics* represent, respectively, *TT*, Total Time; *SP*, Sub-Professional Work; *P*, Professional Work; *RC*, Responsible Charge; *D*, Design. The figures showing the amount of time spent in Responsible Charge and on Design are the estimate of the Applicant. The allowance of four years for graduation and of one-half of a year for each academic year successfully completed in an engineering college without graduation is included in Total Time and Sub-Professional Work.

FOR ADMISSION

1599

(10) **ABERCROMBIE, WILLIAM FLOYD**, State Highway Dept., East Point, Ga. (Age 27. Born Douglasville, Ga.) 1923 B. S. C. E., Univ. of Ga. *TT* 4: *SP* 4. July 1923 to May 1925 Inspector at gravel pits, May to July 1925 and Nov. 1925 to Feb. 1926 field selection of natural materials, July to Nov. 1925 asphalt plant inspection, Feb. to Nov. 1926 research on drainage structures, and Nov. 1926 to date in charge of materials, being Materials Engr., all for Georgia State Highway Dept. *TT* 4.4: *SP* 2.2: *P* 2.2: *RC* 1.5. *TT* 8.4: *SP* 6.2: *P* 2.2: *RC* 1.5. Refers to W. R. Neel, T. M. Neibling, E. N. Seymour, S. B. Slack, C. M. Strahan.

1600

(9) **BAKER, GEORGE FRANKLIN**, 629 Oxford Ave., Dayton, Ohio. (Age 44. Born Wolcott, Ind.) 1911 B. S. in C. E., Purdue Univ. *TT* 4: *SP* 4. June 1911 to March 1914 with Morgan Eng. Co., Memphis, Tenn., as Rodman, Instrumentman and Chf. of field party on surveys, soil investigations, etc. *TT* 2.7: *SP* 0.7: *P* 2: *RC* 0.3. March to June 1914 with Miami River Flood Control, in charge of party on topography survey along Mad River valley, etc. *TT* 0.3: *P* 0.3. June 1914 to Oct. 1918 Asst. City Engr., and April 1920 to Nov. 1921 City Engr., Dayton, Ohio, in charge of levee and channel improvement of Miami River through Dayton and of construction of three concrete bridges, designing culverts, walls and footers and (after April 1920) in charge of design and construction of bridges, street pavements, sewers and pump plants. *TT* 5.8: *P* 5.8: *RC* 5.8: *D* 1.5. Oct. 1918 to Aug. 1919 First Lieut. of Engrs., U. S. Army, at Engr. Officers' Training School, Camp Humphreys, Va. *TT* 0.8: *SP* 0.8. Sept. 1919 to April 1920 Deputy County Surveyor, Montgomery County, Ohio, on surveys, design, location and in charge of construction of highways. *TT* 0.7: *P* 0.7: *RC* 0.7: *D* 0.2. Nov. 1921 to date Director of Public Service, Dayton, being Administration Officer in responsible charge of engineering design and construction and street and sewer maintenance. *TT* 6: *P* 6: *RC* 6. *TT* 20.3: *SP* 5.5: *P* 14.8: *RC* 12.8: *D* 1.7. Refers to F. J. Cellarius, C. H. Elfert, O. N. Floyd, I. E. Houk, E. E. Howard, W. W. Morehouse, C. H. Paul.

1601

(2) **BENFORD, WILLIAM RAMSDEN**, 982 Atwells Ave., Providence, R. I. (Age 25. Born Providence, R. I.) 1927 B. Sc., Brown Univ. *TT* 4: *SP* 4. June 1921 to Oct. 1922 Draftsman for Albert Harkness, Archt., Providence, drawing and superintending construction. *TT* 1.2: *SP* 1.2. Summer 1925 Draftsman for Jackson, Robertson & Adams, Archts., Providence. Summer 1926 and part of time while student Draftsman and Engr. for Bohl & Day, drawing and designing reinforced concrete walls, ramps, etc., construction drawing, testing highway materials and surveying. June 1927 to date Instructor in Eng., Brown Univ., also outside work in surveying, design of buildings and testing of highway materials. *TT* 0.5: *P* 0.5: *TT* 5.7: *SP* 5.2: *P* 0.5. Refers to R. L. Bowen, T. H. Coe, J. E. Hill, J. Wilmot, S. Wilmot.

1602

(1) **BERGHOLM, AXEL OVAR**, 246 Academy St., Jersey City, N. J. (Age 25. Born New York City.) 1927 B. S. in C. E., Pa. State Coll. *TT* 4: *SP* 4. July 1922 to Jan. 1924 and May to Sept. 1924 with Delaware River Bridge Joint Comm., Philadelphia, Pa., until June

1923 as Rodman, and remainder of time Inspector, testing concrete, wire on main cables, etc. *TT 1.4: SP 1.4.* Jan. 1924 to June 1927 student, Sept. 1927 to date Inspector, Port of New York Authority, research on concrete materials, design of concrete mixtures, field control and testing, etc. *TT 0.1: SP 0.1. TT 5.5: SP 5.5.* Refers to C. L. Appleton, M. B. Case, C. Elcock, R. O'Donnell, E. D. Walker.

1603

(13) **BONEYSTEELE, PARKE LOWE**, 3100 Rawson St., Oakland, Cal. (Age 37. Born Bellaire, Ohio.) Sept. 1908 to June 1912 student in Civ. Eng., Ohio Univ. *TT 2: SP 2.* Sept. 1912 to June 1913 Rodman, and June 1913 to Jan. 1917 Transitman on design, construction and inspection of railway grade separation structures and pavements, City of Columbus, Ohio. *TT 4.3: SP 4.3.* May 1917 to July 1919 with U. S. Army. Nov. 1919 to March 1927 with Dept. of Highways, Nevada, until May 1921 as Res. Engr. in charge of construction of Federal Aid projects, then Maintenance Engr., organized Maintenance Div. and directed maintenance operations of entire system. *TT 7.3: P 7.3: RC 7.3.* July 1927 to date Chf. Constr. Engr., Crown Bitumens Corporation, San Francisco, Cal., in charge of design and construction of asphalt pavements. *TT 0.3: P 0.3: RC 0.3. TT 13.9: SP 6.3: P 7.6: RC 7.6.* Refers to T. A. Bither, G. W. Borden, E. C. Brown, C. C. Cottrell, J. M. Kane, H. M. Loy.

1604

(1) **BONI, OVIDIO AUGUSTUS**, 77 Muelle de la Industria, Manila, Philippine Islands. (Age 27. Born Carrara, Italy.) 1923 B. S. in C. E., Univ. of Vt. *TT 4: SP 4.* Summers 1919-1923 with Vermont Marble Co., Proctor, Vt., successively as Rodman, Levelman, Chf. of Party on surveys and Asst. in valuation of industrial buildings, railroad and equipment. *TT 0.3: P 0.3.* Feb. to Oct. 1923 (while student) with Vermont State Highway Dept., Montpelier, Vt., in charge of compiling and making highway map. Oct. 1923 to March 1924 Draftsman on structural detailing, Canadian Bridge Co., Walkerville, Ont., and (after Jan. 1924) Virginia Bridge & Iron Works, Roanoke, Va. *TT 0.4: SP 0.4.* March to July 1924 Chf. of Survey Party, City of Greensboro, N. C., mostly laying out park roads, changing swamp into city park. *TT 0.3: P 0.3: RC 0.3.* Aug. to Oct. 1924 Map Draftsman, Pennsylvania Highway Dept. *TT 0.2: SP 0.2.* Oct. 1924 to June 1925 Draftsman, structural, Ft. Pitt Bridge Works, Canonsburg, Pa. *TT 0.7: SP 0.7.* June 1925 to April 1926 Structural Draftsman, designing details, America Bridge Co., Pencoyd, Pa. *TT 0.8: SP 0.7: P 0.1.* April 1926 to date Chf. Draftsman and (1 year) Acting Chf. Designing Engr., Atlantic, Gulf & Pacific Co. of Manila. *TT 1.7: P 1.7: RC 1.7: D 1. TT 8.4: SP 6: P 2.4: RC 2: D 1.* Refers to F. L. Castleman, T. W. Dix, G. F. Eckhard, S. Garmezzy, W. J. Grodske, R. B. Lockwood, E. E. Wissotsky.

1605

(1) **CAMERON, DUGALD JOHN**, 261 Clinton Ave., New Rochelle, N. Y. (Age 32. Born Winnipeg, Man., Canada.) Licensed Prof. Engr., New York State. July 1913 to Jan. 1917 Draftsman, H. D. Best Co., Engrs. and Bldrs., New York City, detailing, etc., and some design on frame, structural steel and reinforced concrete structures. *TT 3.6: SP 2.9: P 0.7.* Dec. 1917 to Feb. 1919 Private to Master Engr., Senior Grade, Tech. Engr. Design Div., Corps of Engrs., U. S. Army, designing and detailing mechanical equipment and miscellaneous structures. *TT 1.3: SP 0.3: P 1: RC 0.5: D 0.5.* Feb. to Nov. 1917 on estimates, designs, detailing and sales work and March 1919 to date Dist. Mgr., later Head of Eng. Dept. supervising estimating, designing and detailing of reinforced concrete and combination structures, and at present Secy. and Gen. Sales Mgr., Fireproof Products Co., New York City. *TT 9.4: P 9.4: RC 7.6: D 7. TT 14.3: SP 3.2: P 11.1: RC 8.1: D 7.5.* Refers to A. H. Bromley, J. F. Curley, E. F. Griggs, H. S. Harding, F. E. Harrison, W. A. Kinsey, W. F. Wirth.

1606

(15) **CAMPBELL, PHILIP, Jr.**, 7318 Hickory St., New Orleans, La. (Age 24. Born New Orleans, La.) Licensed Civ. Engr., State of Louisiana. 1922 B. E., Tulane Univ. of La. *TT 4: SP 4.* June 1922 to Sept. 1923 Draftsman with Cuyamel Fruit Co., Puerto Cortez, Honduras (6 months), plotting notes, etc., Louisiana Celotex Co., Marrero, La. (4 months), making drawings of special machinery, mill buildings and foundations and some structural design in reinforced concrete, and last 4 months with Standard Oil Co. of Louisiana, plotting maps of oil fields, alignment and profiles of oil pipe lines, computing, etc. *TT 1.1: SP 1.1: D 0.1.* Sept. 1923 to May 1925 Draftsman and Engr., Ansonia Copper & Iron Works, making apparatus and piping layouts in alcohol distilleries, in responsible charge of construction of distilling plant for Orange Grove Refining Co., Braithwaite, La., including layout of eleven steel buildings, and designing power plant and piping systems. *TT 1.7: SP 0.6: P 1.1: RC 1.1: D 0.6.* May 1925 to Jan. 1926 Asst. Engr., New Orleans Sewerage and Water Board, designing details and making drawings of new water-reservoir system, laying out large pipe

lines with valves and sluices, working out intersections of concrete reservoir passage walls. *TT 0.7: P 0.7: D 0.5.* Jan. 1926 to date Structural Engr. for Emile Weil, Inc., Archts., New Orleans, La., on design and supervision of building frames, foundations, etc.; at present in responsible charge, supervising erection of 15-story concrete frame for hotel building. *TT 1.7: P 1.7: RC 1.7: D 0.6.* *TT 9.2: SP 5.7: P 3.5: RC 2.8: D 1.8.* Refers to E. F. Delery, J. deTarnowsky, O. Henry, L. G. Hooper, R. L. Moroney, P. H. Myers, O. K. Olsen.

1607

(8) CATTON, MILES DEWEY, 7329 Clayton Court, Chicago, Ill. (Age 29. Born Toulon, Ill.) 1921 B. S. and later C. E., Univ. of Ill. *TT 4: SP 4.* June 1921 to Aug. 1926 with Illinois Div. of Highways, until Dec. 1922 as Jun. Testing Engr. on aggregate inspection in Southern Wisconsin and Northern Illinois (5 months) and experimental work on Bates Test Road (1 year) in charge of temperature and loading experiments (2 months) and (during traffic runs) of collection of data on concrete-test sections; after Dec. 1922 Dist. Engr. of Materials in lower fourteen counties supervising inspection and testing, etc., of aggregates, steel, lumber, creosoted lumber, etc. *TT 5.1: SP 0.6: P 4.5: RC 2.9: D 1.4.* Aug. 1926 to date at National Headquarters, Portland Cement Association Highways and Municipal Bureau, on preparation of specifications and recommendations for highway design and construction. *TT 1.3: P 1.3: RC 1.1: D 0.2.* *TT 10.4: SP 4.6: P 5.8: RC 4: D 1.6.* Refers to R. R. Benedict, G. F. Burch, H. F. Clemmer, L. Schwartz, F. T. Sheets, L. S. Trainor.

1608

(1) CHRISTENSEN, AAGE BROAGER, Care, Ulen & Co., 25a Philhellenes St., Athens, Greece. (Age 37. Born Copenhagen, Denmark.) 1914 B. S. in C. E., Royal Pol. Coll., Copenhagen, Denmark. *TT 4: SP 4.* April 1914 to March 1916 and Dec. 1916 to March 1917 Recruit, Non-commissioned Officer and (after July 1915) Second Lieut., Royal Engrs., Danish Army. *TT 1.7: SP 0.7: P 1.6.* April to Dec. 1916 and March 1917 to April 1918 Civ. Engr., Nordiska Järnvägsbyggnads A/B (Northern Ry. Constr. Co.), Södertälje, Sweden, being Chf. of party on construction, and Supt. on irrigation. *TT 1.9: P 1.9: RC 0.8.* May to Sept. 1918 Asst. Engr., Danske Statsbaner (Danish Govt. Rys.), being Chf. of Party on survey for double track, Designer of bridges. *TT 0.4: P 0.4: D 0.1.* Oct. 1918 to Dec. 1919 Civ. Engr., N. C. Monberg (Contr. Co.), Copenhagen, being Asst. Supt. on port works Copenhagen, and Designer of ports and hydraulic power plants, Iceland. *TT 1.2: P 1.2: RC 0.2: D 0.5.* Jan. 1920 to Aug. 1921 Chf. Engr., Municipality of Reykjavik, Iceland, on construction of hydro-electric power plant. *TT 1.7: P 1.7: RC 1.7: D 0.5.* May 1922 to Sept. 1925 Civ. Engr. with Christiani & Nielsen, Contrs., Rio de Janeiro, Brazil, being Supt. of hydraulic works and reinforced concrete construction, Designer of reinforced concrete. *TT 3.4: P 3.4: RC 2: D 1.* Nov. 1925 to date Office Engr., Ulen & Co., Athens, Greece, on designs for water supply. *TT 2: P 2: RC 1: D 1.9.* *TT 16.3: SP 4.7: P 11.6: RC 5.7: D 4.* Refers to V. M. Crown, R. W. Gausmann, R. H. Keays, M. R. Keefe, R. M. Merriman, T. S. Shepperd.

1609

(9) CRITSER, WILLIAM HAROLD, 306 East Thirteenth Ave., Columbus, Ohio. (Age 24. Born Bergholz, Ohio.) 1927 B. C. E., Ohio State Univ. *TT 4: SP 4.* Summer 1924 Draftsman, Carroll County Engr.'s office, Carrollton, Ohio, some field work on roads. Summer 1925 Street and Sewer Inspector, and some drafting, and Summer 1926 Draftsman, field and office, City Engr.'s office, Alliance, Ohio. Aug. 1927 to date Draftsman, Sewer Dept., City Engr.'s office, Columbus, Ohio. *TT 0.2: SP 0.2.* *TT 4.2: SP 4.2.* Refers to O. Bonney, C. T. Morris, J. C. Prior, J. R. Shank, C. E. Sherman, R. C. Sloane.

1610

(11) DAVIDSON, JAMES FLEMING, Box 127, Riverside, Cal. (Age 39. Born Bellport, N. Y.) Sept. 1907 to Jan. 1909 Chainman, Rodman, Computer, Draftsman and Instrumentman Jan. 1910 to July 1912 Draftsman and Instrumentman, and Jan. 1914 to Jan. 1923 Chf. Deputy in charge of office and field work, design of highways and bridges, all for County Surveyor, Riverside County, Cal. *TT 11.7: SP 2.7: P 9: RC 5: D 2.* Jan. 1909 to Jan. 1910 Draftsman and Transltman for Kingsbury Sanborn, Hydr. Engr. and Cons. Engr. for Riverside (Cal.) Water Co. *TT 1: SP 1.* July 1912 to Jan. 1914 Draftsman, Instrumentman and Asst. Engr., Riverside Portland Cement Co. *TT 1.5: SP 1: P 0.5.* Jan. 1923 to date in private practice of Civ. Eng. with A. C. Fulmor. *TT 4.8: P 4.8: D 4.8.* *TT 19: SP 4.7: P 14.3: RC 5: D 6.8.* Refers to F. B. Dauchy, W. E. Dauchy, F. O. Dolson, P. V. Hanf, R. V. Leeson, K. Sanborn, A. L. Sonderegger, E. J. Waugh.

1611

(1) DERBY, ELLES MAYO, 1778 East Thirteenth St., Brooklyn, N. Y. (Age 24. Born Brooklyn, N. Y.) 1927 C. E., Pol. Inst. of Brooklyn. *TT 4: SP 4.* June 1926 to date Instructor in Civ. Eng., Polytechnic Inst. of Brooklyn. *TT 1.3: P 1.3.* *TT 5.3: SP 4: P 1.3.* Refers to H. R. Codwise, H. P. Hammond, C. W. Hudson, E. J. Squire.

(15) DIEMER, ROBERT BERNARD, Care. J. G. White Eng. Corporation, S. en C., Xicotencatl, Tamps, Mexico. (Age 39. Born Palmyra, Mo.) 1911 B. S. in C. E., Univ. of Mo. *TT 4: SP 4.* Summer 1907, June 1909 to Sept. 1910 and June 1911 to Sept. 1926 with U. S. Reclamation Service; North Platte Irrigation Project engaged as follows: Summer 1907 Rodman; June 1909 to Sept. 1910 Chf. of Party on canals, laterals and drainage surveys; June 1911 to Sept. 1916 Jun. Engr., being First Asst. to Res. Engr. in charge of canals and lateral surveys, irrigable area surveys and supervision of construction of irrigation works, at Mitchell, Nebr. (2½ years), and in charge of hydrographic studies and water-right adjudications North Platte River in Wyoming and Nebraska (2½ years); Sept. 1916 to March 1919 Asst. Engr., being Engr. in charge of topographic surveys (200 000 acres), Ft. Laramie Div. and Guernsey Reservoir canal surveys and designs, Ft. Laramie Div.; March 1919 to Sept. 1926 Constr. Engr., force account and contract work, being Engr. in charge of surveys, designs and construction, Northport and Ft. Laramie Divs., on canals, laterals and drainage systems, 40 000 acres reclaimed (6 years) and of construction of hydraulic fill earth dam, lateral and canal systems (1½ years). *TT 16.6: SP 1.3: P 15.3: RC 10: D 8.5.* Sept. 1926 to date with J. G. White Eng. Corporation, S. en C., Agts., Mexican National Irrigation Comm., until March 1927 as Location Engr., being Engr. in charge of topographic and location surveys, Santiago and Don Martin Projects, and since then Res. Engr., on engineering and supervision of construction of Rio Mante Project (50 000 acres) near Xicotencatl, Tamps., Mexico. *TT 1.1: P 1.1: RC 1.1: D 0.6. TT 21.7: SP 5.3: P 16.4: RC 11.1: D 9.1.* Refers to H. D. Comstock, A. P. Davis, J. Hinds, J. Munn, R. F. Walter, A. Weiss, F. E. Weymouth.

1613

(1) DREWITT, GEORGE EDWARD, Dept. of Public Works, Sydney, New South Wales, Australia. (Age 38. Born Colombo, Ceylon.) 1909 B. Sc. in Eng., London Univ. *TT 4: SP 4.* 1903 to 1909 article, Medway Iron Works, Rochester, England, and at London Univ. 1911 to 1912 with W. F. L. Beth, Maschinenfabrik, Lubeck, Germany. *TT 1: SP 1: D 1.* 1912 to 1914 with Mt. Morgan (Queensland) Gold Min. Co. (6 months), Harbours and Rivers Branch, Dept. of Public Works, New South Wales (1 year) and Victorian Portland Cement Co., Melbourne (1 year). *TT 2.5: P 2.5: D 2.5.* 1914 to 1918 Artillery Staff Officer, Australian Imperial Forces, in Egypt, Gallipoli, France and Palestine. 1918 to 1919 with Queensland Cement & Lime Co., Ltd., Brisbane. *TT 1: P 1: RC 1.* 1919 to 1921 with Federal Coals, Ltd., Alberta, as Mining Engr. with A. Vasquez, Havana, Cuba, Peninsular Portland Cement Co., Michigan, Bedaux Corporation, Cleveland, Ohio, and Bleach Process Co., Wisconsin (6 months with each). *TT 2.5: P 2.5: RC 2.5.* 1921 to 1923 Civ. Engr., C. R. McKenzie & Co. Ltd., Contrs., Sydney, New South Wales, on enlargement of main canal, Murrumbidgee Irrigation Areas. *TT 2.5: P 2.5: RC 2.5.* 1923 to 1925 with Metropolitan Board of Water Supply, Sewerage and Drainage, Sydney, on design of water-supply schemes, dam and reservoir, calculations. *TT 1.5: P 1.5: D 1.5.* 1925 to date with Water Supply and Sewerage Branch, Dept. of Public Works, Sydney, on design of sewage-disposal works. *TT 2.5: P 2.5: D 2.5. TT 17.5: SP 7.5: P 10: RC 7: D 7.5.* (Applies in accordance with Sec. 1, Art. I, of the By-Laws.)

1614

(9) DURST, ROSS COMPTON, Univ. of Akron, Akron, Ohio. (Age 38. Born Grantsville, Md.) 1915 B. S. in C. E., and 1923 C. E., Ohio Northern Univ. *TT 4: SP 4.* June 1915 to April 1916 Civ. Engr., Campau & Sons, Detroit, Mich., and City Engr., Grosse Pointe, Mich., drafting, computing and field work on sewers, pavements, etc., also surveys, allotment work and landscaping. *TT 0.8: SP 0.8.* April 1916 to June 1917 Asst., Engr. Corps, Pennsylvania R. R., Ft. Wayne, Ind., field and office work, estimating, built two station buildings and many water towers, etc. *TT 1.2: SP 0.2: P 1: RC 0.8: D 0.2.* June 1917 to date with Dept. of Civ. Eng., Univ. of Akron, until Jan. 1919 as Instructor, Jan. 1919 to Jan. 1923 Asst. Prof. and Acting Head of Dept., and since Jan. 1923 Prof. and Head of Dept.; 1920 (3 months) with Maryland Highway Dept. *TT 10.3: SP 1.5: P 8.8: RC 8.8. TT 16.3: SP 6.5: P 9.8: RC 9.6: D 0.2.* Refers to F. E. Ayer, E. L. Bandy, E. D. Barstow, G. G. Dixon, A. S. Hibbs, E. A. Kemmler, H. L. Newhall, J. E. Root, S. G. Swigart.

1615

(4) EHLERS, HENRY EDWARD, 508 West Mt. Airy Ave., Philadelphia, Pa. (Age 48. Born Philadelphia, Pa.) Registered Prof. Engr., Commonwealth of Pennsylvania. 1900 B. S. in M. E., Univ. of Pa. *TT 4: SP 4.* June 1900 to April 1902 Special Apprentice and Machinist, New York Shipbuilding Co., Camden, N. J. April to Dec. 1902 Oiler, American-Hawaiian Steamship Co., at sea, and Dec. 1902 to Jan. 1903 Machinist, shop work. *TT 1.9: SP 1.9.* Jan. 1903 to June 1906 Instructor in Mech. Eng., June 1906 to June 1911 Asst.

Prof., and June 1911 to June 1916 Prof. of Experimental Eng., Univ. of Pennsylvania Jan. 1901 to June 1916 also general consulting engineering, including power plant design and operation, testing equipment, materials, etc., as Asst. to Prof. H. W. Spangler (until 1907) and independently; from 1909 to 1911 special work on design of pumping stations and mechanical equipment for Bureau of Surveys, Philadelphia, Pa. *TT 13.4: P 13.4: RC 10.* June 1914 to Jan. 1924 with Bureau of Eng., Public Service Comm. of Pennsylvania, until Jan. 1915 as Cons. Engr., then Asst. Chf.; work included analysis of records and preparation of reports on cases involving service, valuation, etc., of gas, electric, heating, railroad and other utilities; also Examiner of testimony and reports in cases. *TT 7.5: P 7.5: RC 7.5.* Jan. 1924 to date Director of City Transit, Dept. of City Transit, Philadelphia; department plans, designs and constructs subway, elevated and surface-car subway, etc., including (during past 3 years) 7 miles of 4-track subway. *TT 3.8: P 3.8: RC 3.8: D 3.8.* *TT 30.5: SP 5.9: P 24.7: RC 21.3: D 3.8.* Refers to J. H. M. Andrews, G. H. Biles, C. E. Billin, C. Dillenbeck, R. L. Humphrey, F. M. Masters, F. H. Snow, S. T. Wagner, G. S. Webster.

1616

(9) ELLISON, WALTER DAVID, P. O. Box 323, Ft. Wayne, Ind. (Age 29. Born Bunceton, Mo.) 1926 B. S. in Civ. Eng., Mont. State Coll. *TT 4: SP 4.* Summer 1923 Rodman, Montana State Highway Comm. July 1926 to date Jun. Drainage Engr., Div. of Agri. Eng., Bureau of Public Roads. *TT 1.3: SP 1.3.* *TT 5.3: SP 5.3.* Refers to S. H. McCrory, C. E. Ramser.

1617

(3) FARRISEE, WILLIAM JAMES, 100½ Market St., Potsdam, N. Y. (Age 29. Born Cambridge, Mass.) 1921 B. S., Mass. Inst. Tech. *TT 4: SP 4.* June 1917 to May 1918 and summers 1919 and 1920 Draftsman and Instrumentman, power-plant work, with Stone & Webster, Boston, Mass. *TT 1: SP 1.* Sept. 1921 to June 1922 Instructor in general engineering drawing, Univ. of Illinois. Summers with Stone & Webster. *TT 1.3: P 1.3.* Sept. 1922 to June 1923 Instructor in, and Sept. 1923 to date Asst. Prof. of, Civ. Eng., Clarkson Coll. of Technology, Potsdam, N. Y. Summers Draftsman and Designer with Stone & Webster, and St. Lawrence County Utilities, Inc., Potsdam, N. Y., also (for latter) Field Engr. on water-power plant construction. *TT 5.3: SP 0.3: P 5: RC 4.3: D 0.3.* *TT 11.4: SP 5.3: P 6.1: RC 4.5: D 0.3.* Refers to J. P. Brooks, W. B. Carr, C. A. Pohl, J. A. Smith, B. E. White.

1618

(9) FEHER, FRANCIS, 9630 Stoughton Ave., Cleveland, Ohio. (Age 36. Born Séva, Hungary.) 1919 C. E., Tech. Univ., Budapest. *TT 4: SP 4.* Summers 1911-1914 Draftsman, Hungarian Royal R. R. Co. Oct. 1915 to Oct. 1918 Commander, 6th Engr. Div., Hungarian-Austrian Army, being Officer of engineer detachment in Italy, superintending and designing small bridges, tunnels and reinforced concrete buildings. *TT 3: P 3: RC 2.* Jan. 1919 to Aug. 1921 Structural Engr., The Markray Co., Archts. and Engrs., Budapest, designing and superintending reinforced concrete construction for theatre and other buildings. *TT 1.5: P 1.5: RC 1.5.* Aug. 1921 to April 1922 Structural Engr., The Delta Concrete Co., Hague, Netherlands, calculation for reinforced concrete construction for Amsterdamsche Bank Vereeniging Bldg., Amsterdam. *TT 0.5: P 0.5: RC 0.5.* May 1922 to Nov. 1923 Structural Engr., The H. Butxer Waterbuider and Concrete Co., Rotterdam, Holland, designing and superintending reinforced concrete construction of retaining walls, machine houses, silos, concrete pile foundations, etc. *TT 1.5: P 1.5: RC 1.5: D 1.5.* Jan. to April 1924 Draftsman, T. H. Brooks Co., Cleveland, Ohio, calculation and detail layout of steel constructions of office buildings. *TT 0.2: P 0.2.* April 1924 to 1926 Structural Engr., W. S. Ferguson Co., Archts. and Engrs., Cleveland, designing reinforced concrete and steel construction for office buildings, piers, retaining walls, heavy foundations, etc. *TT 2.5: P 2.5: RC 2.5: D 2.5.* Nov. 1926 to date Engr. of Structural Design, Eng. Div., Cleveland; designed and superintended construction of several sewers, large culverts, high retaining walls, pumping plants, etc., also checks plans. *TT 1: P 1: RC 1: D 1.* *TT 14.2: SP 4: P 10.2: RC 9: D 5.* Refers to J. M. Heffelfinger, Jr., R. Hoffmann, C. W. Schubert, G. B. Sowers, E. B. Thomas, W. J. Watson.

1619

(14) FELPS, CLEMENS INKS, 634 Lincoln St., Topeka, Kans. (Age 37. Born LeRoy, Kans.) 1912 B. S. in Civ. Eng., Kans. State Agri. Coll. *TT 4: SP 4.* Dec. 1912 to May 1916 supervising construction and designing bridges and roads (under State Engr.) at Kansas State Agricultural Coll. *TT 3.3: P 3.3: D 1.3.* May 1916 to Feb. 1917 on design of subways, viaducts, elevated tracks and track layouts, Kansas City (Mo.) Terminal Ry. Co. *TT 0.7: P 0.7: D 0.7.* Feb. to May 1917 promotional work, Portland Cement Association, Kansas City, Mo. *TT 0.2: SP 0.2.* Nov. 1917 to June 1919 Private, Sergeant and Master

Engr., Senior Grade, Co. I, and 3d Battalion Headquarters Co., 23d Engrs., U. S. Army, on construction of camps, roads, warehouses, railroad and highway bridges. *TT 1.6: P 1.6.* March 1923 to June 1925 Engr., Maxwell Constr. Co., contracting and constructing bridges, culverts and road work. *TT 2.2: P 2.2: RC 2.2.* May to Nov. 1917 Bridge Engr. in charge of design of bridges and culverts, June 1919 to Dec. 1922 Div. Engr. in charge of construction on road and bridge work, Dec. 1922 to March 1923 Asst. State Highway Engr. having general supervision of same work, and July 1926 to date Engr. of Constr. in charge of all road and bridge construction, all for Kansas State Highway Comm. *TT 6.6: P 6.6: RC 6: D 0.6. TT 18.7: SP 4.2: P 14.5: RC 8.2: D 2.6.* Refers to W. V. Buck, L. E. Conrad, F. W. Epps, W. S. Gearhart, A. R. Losh, J. B. Marcellus, G. E. Martin, M. W. Watson.

1620

(9) **FRAME, WAYNE SHANNON**, Eng. Experiment Station, Columbus, Ohio. (Age 26. Born Salesville, Ohio.) 1923 B. S. in C. E., Mo. School of Mines. *TT 4: SP 4.* May to Sept. 1923 Field Asst., Missouri Bureau of Geology and Mines, on collection and computation of stream-flow data. *TT 0.4: P 0.4.* Oct. 1923 to June 1927 Jun. Hydr. Engr., and July 1927 to date Asst. Hydr. Engr., U. S. Geological Survey, Water Resources Branch, on collection and computation of stream flow data in Missouri and Ohio Dists., and (July to Nov. 1926) in charge of construction party building reinforced concrete houses for automatic water-stage recorders and (March to June 1927) in Washington (D. C.) office, reviewing and assembling manuscript for water-supply papers; since July 1927, in Ohio Dist., being Prin. Asst. to Dist. Engr. and Acting Dist. Engr. in his absence. *TT 4.1: P 4.1: RC 4.1. TT 8.5: SP 4: P 4.5: RC 4.1.* Refers to H. C. Beckman, C. B. Cornell, N. C. Grover, E. G. Harris, J. C. Hoyt, L. Lee, C. V. Mann.

1621

(10) **FULLER, JOE RICE**, Phoenix Utility Co., Hartford, Tenn. (Age 30. Born Hillister, Tex.) 2 years student, Tex. Agri. and Mech. Coll. *TT 1: SP 1.* Jan. 1920 to Jan. 1921 Inspector, U. S. Engr. Dept., on survey for Sabine (Tex.) Dist. *TT 1: SP 0.5: P 0.5.* Jan. 1921 to Sept. 1924 Engr., Gulf Refining Co., on construction in Port Arthur and Ft. Worth, Tex. *TT 3.7: P 3.7.* Sept. 1924 to May 1926 with Texas Power & Light Co., until Feb. 1925 as Pipe Fitter Foreman, building ice and small electric-generating plants, then Res. Engr. building switch yard and substation (60 000 and 132 000 kw.) at Royce City, Tex., and after Aug. 1925 Supt. building 30-ton ice plant at Crockett, Tex. *TT 1.7: P 1.7: RC 1.2.* May 1926 to April 1927 Engr., Texas Constr. Co., building steam-generating plant (40 000 kw.) at Trinidad, Tex., and (after Oct. 1926) extension (25 000 kw.) to Deepwater steam-generating plant at Houston, Tex. *TT 0.9: P 0.9: RC 0.9.* April 1927 to date Engr., Phoenix Utility Co., building hydroelectric plant (85 000 kw.). *TT 0.4: P 0.4: RC 0.4. TT 8.8: SP 1.5: P 7.3: RC 2.6.* Refers to F. F. Axtell, D. F. Dow, J. G. Glasgow, H. Henderson, C. W. Hughes, H. J. Kelly.

1622

(7) **GALLIGAN, WILLIAM EDWARD**, 148 Howard Ave., Ames, Iowa. (Age 34. Born Carthage, Mo.) 1925 B. S. in C. E., Univ. of Mo. *TT 4: SP 4.* 1917 to 1919 First Lieut. and Capt., U. S. Army, in United States and France; commanded Headquarters Co., 139th Inf., 35th Div. *TT 1.5: P 1.5: RC 1.5.* 1920 to 1922 and 1926 with A. C. Moore, Cons. Engr., Joplin, Mo., successively as Rodman, Chairman, Draftsman, Supervisor of construction, Chf. of Party, Designer and Field Representative, 6 months (1926) promoting and executing contracts. *TT 2.5: P 2.5: RC 0.8.* 1922 to 1923 Supt. of Constr., Carterville (Mo.) Constr. Co., on Kansas (5 miles) and Missouri (3 miles) State Highways (concrete). *TT 1.2: P 1.2: RC 1.2.* 1926 to date Instructor in Civ. and San. Eng., Iowa State Coll. *TT 0.8: P 0.8. TT 10: SP 4: P 6: RC 3.5: D 0.5.* Refers to A. H. Fuller, R. C. Gray, M. P. Hatcher, H. N. Jenks, E. J. McCaustland, A. Marston, H. K. Rubey.

1623

(11) **GLEASON, GEORGE BUTLER**, 803 North Olive St., Alhambra, Cal. (Age 34. Born Corona, Cal.) 1913 to 1917 student, Univ. of California. *TT 2: SP 2.* Vacations and autumn 1916 Rodman to Chf. of Party, on surveys. Nov. 1917 to 1919 with 23d U. S. Engrs., U. S. Army, part of time as Surveyor on switchyards for storage base on Paris & Orleans R. R. near Montierchaume, France, about 4 months in charge of party. May 1920 to Feb. 1922 Asst. to City Engr., Modesto, Cal., in charge of design of storm sewer and Feb. to May 1922 of Sonora, Cal., preparing assessment maps of city from field note, surveying. *TT 2: P 2: RC 2: D 1.7.* May 1922 to Aug. 1923 Jun. Hydr. Engr. and Aug. 1923 to date Asst. Hydr. Engr., State of California, until March 1923 with Div. of Eng. and Irrigation and remainder of time with Div. of Water Rights, on hydraulic studies (about 10 months), office work (6 months) and (since Aug. 1923) in charge of ground water studies and gathering

statist
TT 9.
Jamis

(1) G
New
Brook
Topog
surve
Draft
outs
putte
found
SP 0.
of re
Linot
TT 1
Office
Prin.
Estim
hand
necti
Trans
River
TT 1
W. M

(13)
Engl
(Cal
way
Co.,
L. B

(8) C
Wis.
U. S
char
1918
tion
struc
1921
1923
P 4.
char
Mo.
to E
Coas
Desi
P 0.
Asso
pres
Brid
Refer

(2)
brid
App
1918
surv
Pow
(ove
earth

statistical data in San Gabriel River Basin, analysis of data. *TT 5.5: P 5.5: RC 3: D 0.3. TT 9.5: SP 2: P 7.5: RC 5: D 2.* Refers to H. Conkling, E. Hyatt, Jr., C. G. Hyde, R. H. Jamison, F. C. Scobey.

1624

(1) **GLOCK, ALFRED ROBERT**, 558 Ninth Ave., Long Island City, N. Y. (Age 38. Born New York City.) 1908 to 1918 student in Civ. Eng., Columbia Univ. (3½ years) and Brooklyn Polytechnic Inst. (5 years, evenings). *TT 1.5: SP 1.5.* July 1912 to April 1913 Topographical Draftsman, Office of Pres., Borough of Queens, New York City, Highway Dept., surveying, estimating, drafting, culvert design, etc. *TT 5.7: SP 5.7.* April to July 1918 Draftsman with Hardy S. Ferguson, Cons. Engr., New York City, mechanical and plant layouts of paper mills and power plants. *TT 0.3: SP 0.3.* July 1918 to Aug. 1919 with Wilputte Coke Oven Corporation, New York City, as Draftsman and Designer of steel and foundations, mechanical and plant layouts of by-product coke-ovens and gas plants. *TT 1.1: SP 0.6: P 0.5: D 0.5.* Aug. 1919 to Dec. 1920 with Fougner Concrete Steel Co., as Designer of reinforced concrete industrial buildings, and Res. Engr. on construction of Mergenthaler Linotype Co. Bldg. (\$2 000 000), co-ordinating work of contractors and subcontractors. *TT 1.4: P 1.4: RC 1: D 0.4.* Dec. 1920 to date with City of New York, until June 1922 in Office of Pres., Borough of Queens, as Structural Steel Draftsman (checking and design) and Prin. Asst. to Engr. in Chg. of construction of Jamaica Bay Causeway, then with Board of Estimate and Apportionment, Borough of Manhattan, being Asst. Engr. in charge of squad handling shield method design of subaqueous part of Narrows Tunnel, and of rock tunnel connections on Staten Island; made extensive stress analysis; since May 1925 with Board of Transportation, as Asst. Engr. (Acting Asst. Designing Engr.), on design of Fulton St.-East River-Cranberry St. Tunnel, Section of Houston St. Subway, etc. *TT 7: P 7: RC 6.4: D 5.9. TT 17.1: SP 8.1: P 9: RC 7.4: D 6.8.* Refers to M. D. Casler, C. D. Drew, C. F. Gardner, W. M. Griffin, J. H. Quimby, N. D. Richardson, J. B. Snow, R. C. Strachan.

1625

(13) **GOODWIN, ALBERT BURKE**, 140 Hanna St., Gilroy, Cal. (Age 22. Born Lancashire, England.) 1927 A. B., Stanford Univ. *TT 4: SP 4.* Summer 1925 Chairman, Merced (Cal.) Irrigation Dist. Summer 1926 Deputy County Engr., Santa Clara County, Cal., highway and bridge location and construction. July to Oct. 1927 Levelman, Pickering Lumber Co., on railroad location. *TT 0.3: SP 0.3. TT 4.3: SP 4.3.* Refers to D. R. McFarland, L. B. Reynolds, C. B. Wing.

1626

(8) **GOULD, STEPHEN GROVER**, P. O. Box 116, Brookport, Ill. (Age 32. Born Superior, Wis.) 1917 B. S., Univ. of Wis. *TT 4: SP 4.* May 1917 to May 1919 with 12th Cavalry, U. S. Army at Columbus, N. Mex., until Oct. 1918 as 2d Lieut., then 1st Lieut., in direct charge of rebuilding camp (estimated cost \$400 000). *TT 2: SP 1.4: P 0.6: RC 0.6.* May 1919 to April 1923 with Harrington, Howard & Ash, as Res. Engr. on completion of construction of Canadian River Bridge at Eufaula, Okla. (May 1919 to Aug. 1920), in charge of construction on Gilbert St. Memorial Bridge at Danville, Ill. (\$350 000) (Nov. 1920 to Nov. 1921) and on Missouri River Bridge at Boonville, Mo. (\$650 000) (April 1922 to April 1923) and remainder of time detailing and drafting, Kansas City (Mo.) office. *TT 4.1: P 4.1: RC 3.2.* April 1923 to June 1924 Res. Engr., Missouri State Highway Dept., in charge of construction on Missouri River Bridges at Waverly (2 months) and at Lexington, Mo. (cost \$650 000 and \$1 250 000). *TT 1.2: P 1.2: RC 1.2.* June 1924 to Jan. 1925 Asst. to Engr. in charge of construction, Union Bridge & Constr. Co., on bridges for Florida East Coast Ry. Co. (total about \$2 000 000). *TT 0.6: P 0.6: RC 0.6.* Jan. to Aug. 1925 Bridge Designer, office of Structural Engr., Florida East Coast Ry., St. Augustine, Fla. *TT 0.7: P 0.7: D 0.7.* Aug. 1925 to Aug. 1927 Pres., Coral State Eng. Co., Jacksonville, Fla., and Associate of W. E. Reynolds in design of bridges and general structural engineering. At present with Harrington, Howard & Ash, in charge of construction of Paducah, Ohio, River Bridge (\$1 250 000). *TT 2: P 2: RC 2. TT 14.5: SP 5.4: P 9.1: RC 7.6: D 2.7.* Refers to L. R. Ash, W. H. Bosler, E. F. Gould, H. W. Mead, W. E. Reynolds, H. C. Tammén.

1627

(2) **GRAUSTEIN, EDWARD ADOLF**, 6 Beacon St., Boston, Mass. (Age 37. Born Cambridge, Mass.) 1913 A. B., Harvard Coll. *TT 4: SP 4.* Student, Graduate School of Applied Sci., Harvard Univ. (1913 to 1914) and Massachusetts Inst. of Technology (1914 to 1915). Summer 1914 Instructor in surveying, Harvard Eng. Camp. Summer 1915 private surveying work. *TT 0.1: P 0.1: RC 0.1.* Aug. 1915 to Nov. 1919 Asst. Engr., Turners Falls Power & Elec. Co., being Inspector, Draftsman and Checker on hydraulic construction (over 5 months), Material Clerk (about 3 months), Res. Engr. on transmission-line and earth-dam construction (about 10 months), design of dams, hydro-plants, roads, conveyors,

storage tanks, etc. (about 5 months), Chf. of Party on surveys (about 3 months) and Asst. Engr. reporting of hydro and transmission construction (2½ years). *TT 4.3: SP 0.5: P 3.8: RC 3.5: D 0.7.* Nov. 1919 to July 1922 Asst. Engr. with Howard M. Turner and (later) Turner, Millsbaugh & Safford, on hydraulic and hydro-electric work, reports, valuations and construction. *TT 2.7: P 2.7: RC 1.7: D 1.* July to Sept. 1922 Designer on reinforced concrete with J. R. Worcester, Cons. Structural Engr. *TT 0.2: P 0.2: D 0.2.* Sept. 1922 to Nov. 1924 Asst. Engr. with Vaughan Engrs., being Resident on earth-dam construction, in charge of field investigation, hydro-electric and railroad-electrification reports and water-power studies. *TT 2.2: P 2.2: RC 2.2.* Nov. 1924 to date in private practice of water power, hydraulic, structural and civil engineering. *TT 2.9: P 2.9: RC 2.9.* *TT 16.6: SP 4.5: P 12.1: RC 10.6: D 1.9.* Refers to R. E. Barrett, H. K. Barrows, G. H. Brazer, H. J. Hughes, A. T. Safford, H. M. Turner, J. F. Vaughan.

1628

(9) GREENSHIELDS, BRUCE DOUGLAS, 124 South Main St., Granville, Ohio. (Age 34. Born Winfield, Kans.) 1920 B. S., and 1927 C. E., Okla. Univ. *TT 4: SP 4.* Jan. to Sept. 1922 Rodman, Santa Fe Ry. Co. *TT 0.7: SP 0.7.* Sept. 1922 to June 1923 Instructor in Civ. Eng., Marquette Univ., Milwaukee, Wis. *TT 0.7: P 0.7.* Sept. 1923 to Sept. 1926 Asst. Prof. of Civ. Eng., Virginia Polytechnic Inst., and in charge of Highway Materials Testing Laboratory. *TT 2.5: P 2.5: RC 2.5.* Summers 1923-1925 State Inspector of concrete paving; laid out grades and curves and was responsible for materials and workmanship. *TT 1: P 1.* Sept. 1926 to date Acting Prof. of Civ. Eng., Denison Univ., Granville, Ohio, in charge of a department. *TT 1: P 1: RC 1.* *TT 9.9: SP 4.7: P 5.2: RC 3.5.* Refers to R. B. H. Begg, J. G. Bennett, T. H. Trams, J. I. Tucker, C. R. Weymouth.

1629

(12) HALLSTROM, IRVING THORELL, 949 Twentieth Ave., Seattle, Wash. (Age 26. Born San Francisco, Cal.) 1926 B. S., Coll. of Eng., Univ. of Wash. *TT 4: SP 4.* April 1926 to date member of firm, Hallstrom & Hallstrom, Contrs., Seattle, Wash., superintending all field work, estimating, designing formwork, etc. *TT 1.5: SP 0.5: P 1: RC 1.* *TT 5.5: SP 4.5: P 1: RC 1.* Refers to I. L. Collier, J. B. Hamilton, C. W. Harris, C. C. More.

1630

(14) HELWIG, AUGUSTINE MATHIAS, Wymore, Nebr. (Age 33. Born Wymore, Nebr.) 1913 to 1921 with Chicago, Burlington & Quincy R. R. as follows: 1913 to 1915 Axeman; 1915 to 1916 Head Chainman, Leveler and Instrumentman; 1916 to 1917 Concrete Inspector on water-testing plants (3 months) and Instrumentman; 1918 to 1921 Div. Engr. on construction and maintenance. *TT 7.5: SP 4: P 3.5: RC 3.5.* 1921 to 1923 and 1925 to 1927 on drainage surveys, law-suit work, with G. M. Helwig. *TT 2.5: P 2.5: RC 2.5.* 1923 to 1924 drainage surveys, law suit work, paving and sewers, City of Wymore, A. M. Helwig, Grant Fulton & Letton, Lincoln and Bruce & Grupe, Engrs., Omaha, Nebr. *TT 1: P 1: RC 1.* 1925 to 1927 County Surveyor, Gage County, and on paving and sewers, City of Wymore. *TT 1.5: P 1.5: RC 2: D 1.5.* *TT 12.5: SP 4: P 8.5: RC 8.5: D 1.5.* Refers to P. W. Clancy, F. T. Darrow, C. R. Fulton, R. M. Green, E. Y. Grupe, Jr., C. G. Thornburgh, R. N. Towl.

1631

(1) HOBBS, MERRILL HOPKINS, U. S. Navy, Port-au-Prince, Haiti. (Age 33. Born Baltimore, Md.) 1917 Graduate, Architectural Dept., Maryland Inst. June 1911 to Dec. 1916 Office Boy and Jun. Draftsman with John K. Melver, Contr. and Bldr., Baltimore, Md. *TT 5.5: SP 5.5.* Dec. 1916 to Jan. 1918 Structural Draftsman, Bethlehem Steel Co., Sparrows Point, Md., on design and detail drawings for new plate mills and open-hearth plant. *TT 1.1: SP 1.1.* Jan. to July 1918 Structural Draftsman, Constr. Div., War Dept., Washington, D. C., detailing structural steel and reinforced concrete buildings. *TT 0.5: SP 0.5.* July 1918 to Jan. 1919 Draftsman, Baltimore & Ohio R. R. *TT 0.5: SP 0.5.* Jan. 1919 to Aug. 1921 Estimator and Office Engr., Melver Constr. Co., Inc., Baltimore, estimating and designing building construction. *TT 2.6: P 2.6: RC 2: D 0.6.* Aug. 1921 to Aug. 1924 Asst. Chf. Engr. (6 months) and Chf. Engr., Curtis Bay Copper & Iron Works, South Baltimore, Md., in charge of design and construction, structural steel fabrication and general ship repairing. *TT 3: P 3: RC 2.5: D 0.5.* Aug. to Dec. 1924 Structural Estimator, Carolina Steel & Iron Works, Greensboro, N. C., estimating and designing structural steel. *TT 0.3: P 0.3: D 0.3.* 1925 with Leslie N. Iredell, Archt., Tampa, Fla., as Structural Engr. and Mgr. of branch office at Ft. Myers, Fla. *TT 1: P 1: RC 1: D 1.* Jan. to May 1926 Structural Engr. and Supt. of Constr. with M. Leo Elliot, Inc., Archts. and Engrs., Tampa. *TT 0.3: P 0.3: D 0.3.* May to Oct. 1926 Supt. of Constr. on laboratory building, Upman & Adams, Archts., Washington, D. C. *TT 0.5: P 0.5: RC 0.5.* Oct. 1926 to date Structural Engr.

(9 months) and Chf. Draftsman, Dept. of Public Works, Republic of Haiti, Port au Prince, Haiti. *TT 1: P 1: RC 0.2: D 0.7. TT 16.4: SP 7.6: P 8.8: RC 6.3: D 3.5.* Refers to R. W. Anderson, A. G. Bisset, F. H. Cooke, J. S. Leister, W. C. Schnabel, A. P. Smyth, 1632

(11) **HOY, WILLIAM WILSON**, 516 National Bank Bldg., Santa Ana, Cal. (Age 55. Born Bovina, N. Y.) 1895 C. E., Cornell Univ. *TT 4: SP 4.* June 1895 to Jan. 1896 Sewer Inspector, Ithaca, N. Y. *TT 0.6: SP 0.6.* Feb. to April 1896 Rodman, State of New York, on Erie Canal resurvey. *TT 0.2: SP 0.2.* May 1896 to Dec. 1900 and Jan. 1905 to Jan. 1906 Asst. Engr., National Transit Co. and Affiliated Companies, Oil City, Pa., and Marietta, Ohio, on surveys, maps, estimates, location of pipe lines, railroad, etc., and (after Jan. 1905) in charge of construction of pumping plants, etc. *TT 5.7: SP 2.7: P 3.* Jan. to Aug. 1901 Chf. Locating Engr. on 150 miles of pipe line, with surveys and plans, and April 1902 to Dec. 1904 Constr. Engr. in charge of construction of three pumping stations and 55 miles of pipe line, Burma Oil Co., Rangoon, India. *TT 3.4: P 3.4: RC 3.4.* Sept. 1901 to March 1902 Asst. Engr., Hudson Tunnels Co., New York City, under Jacobs & Davies, Chf. Engrs., in charge of preparing blanket to cover bottom of river over tunnel, of designing non-split door air lock, etc. in Chf. Engr.'s office in charge of purchasing supplies for Burma Oil Co. *TT 0.7: P 0.7: RC 0.3: D 0.3.* Jan. 1906 to March 1908 and Jan. 1909 to Aug. 1910 Asst. Gen. Supt., Southern Pipe Line Co. and Affiliated Companies, Lancaster, Pa., in charge of operation, new construction of pumping stations (13) and pipe line (approx. 2 000 miles), on Southern and Crescent Pipe Lines and National Transit Co. *TT 3.8: P 3.8: RC 3.8.* April to Dec. 1908 Constr. Engr., Ohio Oil Co., in charge of construction of pumping stations at Lima, Harpster and Coulter. *TT 0.7: P 0.7: RC 0.7.* Sept. 1910 to Sept. 1911 Engr. and Pres., Lehigh Contr. Co., on construction of bridges and water plant at High Grove, N. J. *TT 1.1: P 1.1: RC 1.1.* Nov. 1911 to Feb. 1913 Field and Office Engr., Pennsylvania State Highway, surveys and plans. *TT 1.3: P 1.3.* March 1913 to Dec. 1914 Res. Engr. and Asst. Chf. Engr., Orange County (Cal.) Highway Comm., in charge of surveys and construction of highway system. *TT 1.8: P 1.8: RC 1: D 0.8.* Jan. 1915 to April 1919 Deputy County Surveyor, Orange County, in charge of highway surveys, locations, designs and construction. *TT 4.3: P 4.3: RC 4.3.* May 1919 to Jan. 1922 City Engr., Santa Ana, Cal., design and construction. *TT 2.7: P 2.7: RC 2.7.* Feb. 1922 to date Cons. Engr. and general engineering practice, surveys, subdivision, estimates, irrigation and protection work, being Engr. for various irrigation companies, drainage districts, a development company, etc. and for City of Brea. *TT 5.6: P 5.6. TT 36: SP 7.5: P 28.5: RC 17.4: D 1.1.* Refers to D. M. Baker, J. V. Davies, B. F. Dupuy, N. H. Neff, H. N. Ogden, F. M. Towl, J. A. Trudeau.

1633

(9) **KELLY, FRANCIS JOSEPH**, Box 148, Indianapolis, Ind. (Age 34. Born Vale Summit, Md.) 1925 M. E., Coll. of Applied Sci., Syracuse Univ. *TT 4: SP 4.* Summers 1915 and 1916 Special Apprentice, Mech. Dept., Baltimore & Ohio R. R., Repair and Erecting Shops. May 1917 to May 1919 with D Co., 11th Engrs., U. S. Army, on construction, maintenance and operation of military railroads, A. E. F. *TT 2: P 2: RC 1.* June 1919 to Feb. 1921 with Hunkin-Conkey Constr. Co. of Cleveland, Ohio, as Constr. Engr. and Estimator on Kelly Springfield Tire Factory at Cumberland, Md. *TT 1.7: P 1.7: RC 0.7: D 0.5.* Feb. 1921 to Sept. 1923 and summer 1924 with Kelly Springfield Tire Co., Cumberland, until Feb. 1923 as Labor Foreman and Constr. Engr., supervising concrete, reinforcing steel, structural steel erection, sewers and water lines, then Draftsman on design of new buildings, machine bases (concrete) and maintenance of machinery, and summer 1924 on plant engineering work. *TT 2.6: P 2.6: RC 2: D 0.6.* Sept. 1923 to June 1925 student Syracuse Univ. June to Dec. 1925 and Feb. 1926 to date with Hunkin-Conkey Constr. Co., as Constr. Engr., 6 months on new power plant for Cleveland Elec. Illuminating Co., Avon Lake, Ohio, layout of intake and discharge tunnels, setting machinery and general construction, 6 months on Nissen Office Bldg. and Bank, Winston-Salem, N. C. 7 months on cotton fabric mill at Cedar-town, Ga., for Goodyear Tire & Rubber Co. of Akron, Ohio (also acting Gen. Labor Foreman on latter), and since April 1927 on Scottish Rite Cathedral and Indiana State World War Memorial, both in Indianapolis, Ind. *TT 2.2: P 2.2: RC 2.2. TT 12.7: SP 4: P 8.7: RC 6.1: D 1.3.* Refers to W. T. Chevallier, C. B. Cornell, W. A. Lyon, L. Mitchell, W. B. Parsons, S. D. Sarason.

1634

(12) **KOPPEN, EDWARD CHARLES**, 821 East Jackson St., Medford, Ore. (Age 48. Born Chicago, Ill.) Studied Eng., Correspondence Branch, Armour Inst. of Technology. Oct. 1900 to Oct. 1903 Private and Corporal, Co. E, Second Battalion Engr. Corps, U. S. Army, Philippine Islands, acting as Rodman and Instrumentman. *TT 3: SP 3.* Oct. 1903 to Oct. 1904 Rodman and Instrumentman, Canton Hankow Ry., Canton, China. *TT 1: SP 1.* Oct.

1904 to March 1905 in private practice, on survey of part of Canton. *TT 0.4: P 0.4: RC 0.4.* April 1905 to April 1908 Chf. of Party, Bureau of Lands, Manila, Philippine Islands, on subdivision surveys. *TT 3: P 3: RC 3.* Oct. 1908 to April 1909 Chf. of Party, in charge of surveys and Instrumentman, Bitter Root Valley Irrigation Co., Hamilton, Mont. *TT 0.5: SP 0.5.* June to Nov. 1909 Instrumentman, Black Canyon Irrigation Dist., Idaho. *TT 0.4: SP 0.4.* Nov. 1909 to Nov. 1912 Chf. of Party in charge of surveys and contract construction, Boise (Idaho) Reclamation Project; Nov. 1912 to April 1913 Inspector of concrete, Arrowrock Dam, Idaho; May 1914 to June 1917 Chf. of Party in charge of surveys and investigations for irrigation development, Carlsbad, N. Mex.; and June 1917 to Feb. 1925 Engr., being Office Engr. in charge of surveys and designs for irrigation development on Klamath Project, all for U. S. Reclamation Service. *TT 14.3: SP 0.5: P 13.8: RC 13.8: D 4.5.* Feb. 1925 to date Field Engr., California Oregon Power Co., in charge of surveys and investigations for hydro-electric development. *TT 2.7: P 2.7: RC 2.7: D 1. TT 25.3: SP 5.4: P 19.9: RC 19.9: D 5.5.* Refers to J. A. Beemer, P. O. Crawford, D. C. Henny, H. D. Newell, J. L. Savage.

1635

(1) LINDQUIST, ERIK GUSTAF WERNER, 19 Falugatan, Stockholm, Sweden. (Age 34. Born Lidköping, Skaraborgs län, Sweden.) 1917 Civilingenjör (M. of Sc.), Royal Technical Univ. of Stockholm. *TT 4: SP 4.* July-Oct. 1911 Chairman and Rodman, Kil-Fryksdalens Ry. under construction. *TT 0.3: SP 0.3.* Nov. 1911 to Sept. 1912 Instrumentman, Inspector and Draftsman, Constr. Dept., Royal Swedish Board of Water Power. *TT 0.8: SP 0.8.* Sept. 1912 to May 1917 student, Royal Technical Univ., Stockholm. June to Oct. 1915 student at a Military College; Nov. 1915 Lieut., Engr. Corps, Swedish Army. June-Dec. 1917 Res. Engr., Jan.-May 1918 Temporary Supt., June-Dec. 1918 Supt., and Jan.-March 1919 Asst. Supt., Constr. Dept., Royal Swedish Army. *TT 1.8: P 1.8: RC 1.4: D 0.2.* April-Aug. 1919 Designer, Royal Board of Water Power, Stockholm. *TT 0.4: P 0.4: RC 0.4: D 0.4.* Sept. 1919 to date Research Engr., Hydr. Laboratory, Royal Technical Univ., Stockholm, designed and supervised construction of laboratory; since Dec. 1921 Lieut., Royal Corps of Civ. Engrs., Swedish Army. *TT 8.2: P 8.2: RC 6.2: D 2. TT 15.5: SP 5.1: P 10.4: RC 7.6: D 2.6.* Refers to F. A. Barnes, S. Fortier, J. R. Freeman, C. Herschel, H. W. King, F. C. Scobey, E. W. Schoder, J. C. Stevens.

1636

(1) LIRA MANSO, LEONARDO, Casilla 492, Santiago, Chile. (Age 43. Born Santiago, Chile.) 1906 C. E., Univ. of Chile. *TT 4: SP 4.* 1913 to date with Govt. of Chile, until 1923 as Chf. Engr. on construction, and 1923 to date Director Engr. of administration of, water supplies and sewerage, Santiago. *TT 14: P 14: RC 14. TT 18: SP 4: P 14: RC 14.* (Applies in accordance with Sec. 1, Art. I, of the By-Laws.)

1637

(1) McGOVERN, JOHN JOSEPH, Jr., 60 West Eighteenth St., Whitestone, N. Y. (Age 22. Born Whitestone, L. I.) 1926 B. S. in C. E., Manhattan Coll. *TT 4: SP 4.* June to Oct. 1926 Rodman and Transitman, Long Island R. R. *TT 0.4: SP 0.4.* Oct. 1926 to April 1927 Jun. Engr. with Wm. F. Kenny Co., quantity estimating, field inspection and cost data. *TT 0.5: SP 0.5.* April 1927 to date Field Supt. for Ph. Lenges Iron & Steel Co., Brooklyn, N. Y., complete charge of erection work in ornamental and structural steel. *TT 0.5: P 0.5: RC 0.5. TT 5.4: SP 4.9: P 0.5: RC 0.5.* Refers to J. J. Costa, E. D. Lynch, W. H. Yates.

1638

(14) MARSHALL, HARRY ALEXANDER, 124 South Stephens St., Topeka, Kans. (Age 36. Born Troy, Wis.) 1915 B. S., Univ. of Wis. *TT 4: SP 4.* July 1915 to Sept. 1917 Jun. Engr., Illinois State Highway Comm., being Draftsman, Estimator, Inspector, etc. *TT 2.1: SP 1.6: P 0.5: D 0.5.* Sept. 1917 to July 1919 and Feb. 1920 to April 1923 with Kansas Highway Comm. until July 1919 as Asst. Road Engr., drafting, preparing and checking road plans and estimates, and (6 months) Acting Road Engr. in charge of state road work and after Feb. 1920 Asst. to Asst. State Highway Engr., in charge of Dept. of Plans, Specifications and Estimates. *TT 5: SP 0.5: P 4.5: RC 3.7: D 0.8.* July 1919 to Feb. 1920 Chf. Engr., Southwestern Eng. Co., surveying and planning Federal Aid road and bridge work. *TT 0.6: P 0.6: RC 0.6.* April to May 1923 Asst. Res. Engr., Shawnee County, Kans., in charge of party on construction of concrete roads. *TT 0.1: P 0.1.* May 1923 to date in private practice as Cons. Engr., surveying and planning Federal Aid highways and bridges, until April 1925 as member of firm, Eldmann & Marshall, then as H. A. Marshall. *TT 4.5: P 4.5: RC 4.5: D 4.5. TT 16.3: SP 6.1: P 10.2: RC 8.8: D 5.8.* Refers to W. V. Buck, O. J. Eldmann, F. W. Epps, R. H. Pennartz, C. H. Scholer, I. E. Taylor.

1639

(6) MILLER, AARON GEORGE, 2565 Fifth Ave., Pittsburgh, Pa. (Age 25. Born Pittsburgh, Pa.) 1923 B. S., Carnegie Inst. Tech. TT 4: SP 4. 1923 to date Supt., H. Miller & Sons' Co., Pittsburgh, Pa., in charge of construction. TT 4.3: P 4.3: RC 3. TT 8.3: SP 4: P 4.3: RC 3. Refers to D. S. Bright, C. G. Dunnells, H. H. Frank, E. N. Hunting, F. Kubitz, F. L. Metzger.

1640

(14) MILLER, CHARLES THEODORE, 1912 South Twenty-Fourth St., St. Joseph, Mo. (Age 40. Born in Clay County, Iowa.) 2 years student, Iowa State Coll. TT 1: SP 1. 1907 to 1909 Rodman, 1909 to 1911 Instrumentman; 1911 to 1914 Res. Engr. and Supt. of Constr. on tracks and bridges; 1915 to 1917 Asst. Engr. and Supt. on Missouri River Bridge at Kansas City, Mo.; and 1918 to 1919 Res. Engr. on double-tracking, all for Chicago Burlington & Quincy R. R. TT 10.7: SP 5: P 5.7: RC 5.7. 1914 to 1915 Surveyor, War Dept., Kansas City Office. TT 1: SP 1. 1917 to 1918 Locating Engr. for proposed electric railway in Florida. TT 1.5: P 1.5: RC 1.5. 1919 to 1926 Engr. and Roadmaster, St. Joseph Ry., Light & Power Co. TT 6.7: P 6.7: RC 6.7. 1926 to date Asst. City Engr., St. Joseph. TT 1.7: P 1.7: RC 1.7. TT 21.7: SP 6: P 15.7: RC 15.7. Refers to E. K. Carter, W. G. Fowler, H. F. Juengst, J. D. Mohler, W. M. Spann.

1641

(4) MILLER, ROGER LIGHT, 918 Lehman St., Lebanon, Pa. (Age 22. Born Lebanon, Pa.) 1927 C. E., Lehigh Univ. TT 4: SP 4. Refers to R. J. Fogg, H. G. Payrow.

1642

(2) MONAMY, ANDRE ROBERT ROGER, 177 Newbury St., Boston, Mass. (Age 31. Born Villers-Robert, France.) 1923 C. E., National School of Bridges and Roadways, Paris, France. TT 4: SP 4. April 1915 to 1920 with French Army, commissioned Sub-Lieut. of Artillery (Aug. 1916), Lieut. (March 1918) and made Commanding Officer of Field Battery (Oct. 1918). Aug. 1923 to Jan. 1926 with E. Pellissier, Engr. and Contr., Strasbourg, France, on design and construction of transmission lines with steel towers (60 miles), construction of water-supply system and industrial buildings. TT 2.5: P 2.5: RC 2: D 2.5. Jan. 1926 to Jan. 1927 with Societe des Grands Travaux de Strasbourg, France, on design of reinforced concrete bridge, various foundations and buildings; Works Mgr. for concrete waterproofing of Rhine-Rhone Canal and on construction of new petroleum harbor at Strasbourg. TT 1: P 1: RC 1: D 0.5. May 1927 to date with Stone & Webster, Inc., Engrs. and Contrs., designing and drafting reinforced concrete power plants and industrial buildings. TT 0.5: P 0.5: D 0.5. TT 8: SP 4: F 4: RC 3: D 3.5. Refers to S. C. Jemian, R. Modjeski, G. A. Orrok, T. A. Ross, W. J. Wilgus.

1643

(6) MORRIS, ALBERT WOOD, Jr., 702 Morris Bldg., Philadelphia, Pa. (Age 24. Born Johnstown, Pa.) Sept. 1922 to June 1923 student in Mech. Eng., Rensselaer Polytechnic Inst. TT 0.5: SP 0.5. June 1923 to Jan. 1924 Draftsman, Machine and Tool Design Dept., Westinghouse Elec. Mfg. Co., Springfield, Mass. TT 0.5: SP 0.5. Jan. to Sept. 1924 Rodman and March to Sept. 1925 Draftsman, also acting as Rodman and Instrumentman, Springfield Water Works. TT 1.2: SP 1.2. Sept. 1924 to March 1925 Draftsman, New England Telephone & Telegraph Co. TT 0.3: SP 0.3. Sept. 1925 to date Draftsman, Regional Planning Federation, Philadelphia, Pa., map drafting, research, transportation studies, etc. TT 2: SP 2. TT 4.5: SP 4.5. Refers to J. H. M. Andrews, R. V. Black, E. E. Lochridge, R. H. Morris, G. S. Webster.

1644

(5) MORTON, PAUL STEELE, City Mgr., Alexandria, Va. (Age 32. Born Louisville, Ky.) June 1913 to June 1914 Rodman, Instrumentman and Inspector, Louisville & Nashville R.R. TT 1: SP 1. June 1914 to June 1915 Rodman and Instrumentman, Southern Ry. TT 1: SP 1. June 1915 to June 1916 Instrumentman and Asst. Res. Engr. on location and construction, and Jan. 1922 to Jan. 1923 Asst. Engr. on valuation, Chesapeake & Ohio Ry., Richmond, Va. TT 3: SP 1: P 2: RC 2. June 1916 to June 1917 Res. Engr. and Constr. Supt., Virginia Lead & Zinc Corporation, on railway location, construction and design. TT 1: P 1: RC 1. June 1917 to April 1919 with A. E. F., Engr. Corps, 17th Engrs., U. S. Army, as Private, Sergeant and Graduate, Engr. Officers' School. TT 1.8: P 1.8. April 1919 to Jan. 1921 Res. Engr., Jacksonville Terminal Co., on railway terminal construction. TT 0.9: P 0.9: RC 0.9. Jan. 1921 to Jan. 1922 Res. Engr. and Asst. Div. Engr., State Highway Comm. of Virginia, on construction. TT 1: P 1: RC 1. Jan. 1923 to date with City of Alexandria, as Director of Public Safety (2½ years) and City Mgr. (2½ years). TT 5: P 5: RC 5. TT 14.7: SP 3: P 11.7: RC 9.9. Refers to R. M. Cooksey, W. F. Day, E. C. Dunn, R. W. B. Hart, D. L. Struthers, H. A. Yancey.

1645

(3) MYERS, WALTER DOW, 82 Market St., Potsdam, N. Y. (Age 24. Born Seattle, Wash.) 1924 B. S. in C. E., Clarkson Coll. Tech. TT 4: SP 4. June to Oct. 1924 Surveyor, Puget Sound Power & Light Co., Seattle, Wash. TT 0.4: P 0.4. Aug. 1925 to June 1926 Asst. Engr., Surinaam Bauxite Co., Paramaribo, Dutch Guiana, on survey, mapping, stream-flow studies, preliminary design and estimate of hydro-electric development. TT 0.8: SP 0.4: P 0.4. June 1926 to July 1927 Asst. Engr., Republic Min. & Mfg. Co., Philadelphia, Pa., on investigation of water-power resources of Russia, in charge of surveying, mapping and computations. TT 1.1: P 1.1: RC 0.3. Nov. 1924 to Aug. 1925 Draftsman and Designer detailing and designing structures, and Aug. to Sept. 1927 Surveyor in charge of surveying and mapping for hydro-electric developments, all for St. Lawrence Valley Power Corporation, Potsdam, N. Y. TT 0.9: SP 0.4: P 0.5: RC 0.1. TT 7.1: SP 4.8: P 2.3: RC 0.4. Refers to H. O. Blair, W. A. Schuerman, J. E. S. Thorpe.

1646

(7) OHR, MILO FREDERICK, 816 East Kingsley Ave., Ann Arbor, Mich. (Age 28. Born Monroe, Mich.) 1927 B. S. in C. E., Univ. of Mich. TT 4: SP 4. March 1915 to March 1920 with W. H. Knapp & Co., Contr. Engrs., timekeeping, Supt. on road work, estimating and cost work. TT 3: SP 3. March 1920 to June 1922, July to Sept. 1923 and June to Sept. of years 1924 and 1925 with City Engr.'s office, Monroe, Mich., on design and field layout of storm and sanitary sewers and pavements, in charge of lines, grades, inspection, etc. TT 2.5: P 2.5: RC 1.2: D 0.5. June to Sept. 1922 with W. H. Knapp & Co., on estimating and cost analysis. TT 0.3: P 0.3. Feb. 1927 to date with Ayres, Lewis, Norris & May, Cons. Engrs., Ann Arbor, Mich., general consulting work. TT 0.5: P 0.5: D 0.5. TT 10.3: SP 7: P 3.3: RC 1.2: D 0.7. Refers to L. E. Ayres, J. H. Cissel, G. A. Gessner, Jr., R. H. Sherlock, G. S. Williams.

1647

(4) O'NEILL, ANDREW SABIN, 127 East Mermalde Lane, Chestnut Hill, Philadelphia, Pa. (Age 43. Born New York City.) 1905 to date in private practice as O'Neill Co., Philadelphia, Pa., contracts completed include Crum Creek Dam Media, Pa., for Springfield Cons. Water Co.; large main sewers for Bureau of Eng. Philadelphia; street railway tunnel and approaches, Art Museum Plaza, driveway and plaza work, removal and relocation of Washington Monument, street railway trestle and approaches to Spring Garden St. Bridge, pipe tunnel and shafts for Philadelphia Art Museum, all for Commrs. of Fairmount Park; Camden approaches, Contract No. 20 and Camden Plaza, Contract Nos. 27, 28, 28B, for Delaware River Bridge Joint Comm. TT 22: P 22: RC 22. Refers to A. Corson, L. F. Driscoll, A. C. Patterson, P. M. Sax, J. A. Vogleson.

1648

(8) OTT, LEONARD EUGENE, Ozark, Ill. (Age 34. Born Preston, Minn.) 1914 B. S. in C. E., and 1915 C. E., Univ. of Minn. TT 4: SP 4. Summer 1914 and June 1915 to June 1916 with Johnson & Drake, Engrs. and Contrs., Minneapolis, Minn., first as Supt. on construction of concrete power plant at Univ. of Minnesota Agricultural Coll., and after June 1915 Supt. and Engr. on construction of 3-span concrete arch bridge at Canon Falls, Minn. cofferdam work. TT 1.3: P 1.3: RC 1.3. June 1916 to Jan. 1917 Designer, South Shore R.R., Duluth, Minn., designing and detailing concrete and steel bridges. TT 0.6: P 0.6: D 0.6. April 1917 to Jan. 1918 Asst. Engr., Bridge Valuation Dept., Northern Pacific R.R., St. Paul, Minn. TT 0.8: P 0.8. Jan. to June 1918 Min. Engr., and Jan. 1919 to June 1923 Asst. Chf. Inspector, Great Northern Iron Ore Properties, Marble, Minn., supervising iron-mining operations, layout and development. TT 4.8: P 4.8: RC 2.4: D 2. June to Dec. 1918 student, Engrs. Officers' Training School, Camp Humphreys, Va., and 2d Lieut., 140 Engrs., Camp Shelby, Miss. June 1923 to date with A. Guthrie & Co., Inc., Calumet and St. Paul, Minn., until June 1925 as Engr., Mesabi Range operations, Calumet, Minn., on estimates, layout, steam shovel and equipment design, then on construction of 7 000-ft. tunnel for Illinois Central R. R., at Ozark, Ill., 6 months as Gen. Foreman, and since Dec. 1925 as Supt. in charge. TT 3.4: P 3.4: RC 2.4: D 2. TT 15.9: SP 4: P 11.9: RC 6.1: D 4.6. Refers to E. H. Bruntlett, A. S. Cutler, R. M. Knox, G. M. O'Rourke, L. P. Wolff.

1649

(1) PAI, HU-WEI, Min River Conservancy, Foochow, China. (Age 38. Born Kulangsu, Amoy, China.) Jan. 1916 to June 1918 student in Civ. Eng., Stanford Univ. TT 1: SP 1. July 1913 to June 1914 Surveyor, Lung Hal Ry. Co., Peking, China. TT 1: P 1. July 1914 to Nov. 1915 Constr. Engr. designing and estimating, Chui Keng Tong Printing Press, Kulangsu, China. TT 1.5: P 1.5: RC 1: D 0.5. July 1918 to Jan. 1920 War Secy., National Committee, Y. M. C. A., in France. TT 1.5: SP 1.5. June 1920 to Dec. 1925 Asst. Engr., Hankiang Conservancy Bureau, Swatow, South China, in responsible charge of engi-

neering
Military
April 19
ing. T
Marx.

(11) PE
St. Dav
SP 0.5.
Ariz.
Chainm
SP 1.1.
Land &
man an
sewer
liminar
and co
Ballha

(10) P
Ala.)
U. S. C
June
Dadevi
and de
to J. V

(9) PE
Park,
F. H.

(2) PE
N. H.
Lowel
TT 1
on de
buildi
Bldg.
RC 2
L. C.

(1) P
Brook
Fogg,

(9) P
Born
in Ch
of A
math
Prof.
mun
Mt.
TT
J. R
Wolv

(11)
Ott
Colo
gome
Topo
Terr

neering work. *TT 5.5: P 5.5: RC 4: D 1.5.* April 1926 to March 1927 Chf. Engr., T'eng Jao Military Highway Bureau, in responsible charge of engineering work. *TT 1: P 1: RC 1.* April 1927 to date with Eng. Comm., Min River Conservancy, in responsible charge of designing. *TT 0.7: P 0.7: RC 0.7. TT 12.2: SP 2.5: P 9.7: RC 6.7: D 2.5.* Refers to C. D. Marx. (Applies in accordance with Sec. 1, Art. I, of the By-Laws.)

1650

(11) PEDERSON, LOUIS ALPHONZO, P. O. Box 312, Peoria, Ariz. (Age 24. Born St. David, Ariz.) Sept. 1923–May 1924 student in Civ. Eng., Univ. of Arizona. *TT 0.5: SP 0.5.* Sept. 1922–April 1923 Chainman for P. E. Fernald, U. S. Mineral Surveyor, Tucson, Ariz. *TT 0.7: SP 0.7.* May–Aug. 1923 Head Chainman and June 1924–Feb. 1925 Head Chainman, Rodman and Draftsman for W. R. Elliott, Cons. Engr., Phoenix, Ariz. *TT 1.1: SP 1.1.* March–June 1925 Rodman, Instrumentman, Calculator and Draftsman, Beardsley Land & Investment Co. *TT 0.3: SP 0.3.* July 1925–June 1926 Head Chainman, Instrumentman and Sand Inspector, City Eng. Dept., Tucson, Ariz., sub-division of property, street paving, sewer projects. *TT 1: SP 1.* July 1926 to date Instrumentman, Griggs Eng. Co., on preliminary canal location, topography of storage reservoirs, reestablishment of section corners, and construction work on canals. *TT 1.5: SP 1.5. TT 5.1: SP 5.1.* Refers to J. G. Bailhache, C. E. Griggs, A. F. Harter, W. S. King, G. E. P. Smith.

1651

(10) PEERSON, JOHN WILLIAMS, Lock 18, Wetumpka, Ala. (Age 24. Born Florence, Ala.) 1926 B. S. in Civ. Eng., Univ. of Ala. *TT 4: SP 4.* Sept. 1921 to Sept. 1923 Rodman, U. S. Govt., Muscle Shoals, Ala., part of time inspecting placing of concrete. *TT 2: SP 2.* June 1926 to date with Dixie Constr. Co., until Nov. 1926 as Transitman, Martin Dam, Dadeville, Ala., and since then Asst. Engr., Lock 18, Wetumpka, Ala., drafting, estimating and designing. *TT 1.4: SP 0.1: P 1.3: RC 1. TT 7.4: SP 6.1: P 1.3: RC 1.* Refers to J. W. Cotlin, G. J. Davis, Jr., S. C. Houser, M. E. James, K. V. Jones, L. G. Warren.

1652

(9) PETERJOHN, CARL FRED, 355 The Arcade, Cleveland, Ohio. (Age 22. Born West Park, Ohio.) 1927 B. S. in Civ. Eng., Case School of Applied Sci. *TT 4: SP 4.* Refers to F. H. Neff, H. G. Reitz.

1653

(2) PHANEUF, VICTOR SIMEON, 122 Concord St., Nashua, N. H. (Age 29. Born Nashua, N. H.) 1921 B. S., Mass. Inst. Tech. *TT 4: SP 4.* May 1922 to May 1923 Designer, Saco-Lowell Shops, Lowell, Mass., being Experimental Designer, also Checker of drafting room. *TT 1: SP 1: D 0.9.* May 1923 to June 1924 Designer with John A. Stevens, Engr., Lowell, on design of power plants and concrete construction, plant survey, tests and superintending building construction. *TT 1: SP 1: D 0.8.* June 1924 to date Engr., S. Belanger & Son, Inc., Bldg. Contrs., Nashua, estimating, designing and superintending. *TT 3.4: SP 1: P 2.4: RC 2: D 1. TT 9.4: SP 7: P 2.4: RC 2: D 2.7.* Refers to J. W. Childs, F. E. Everett, L. C. Gustin, E. F. Miller, H. A. Wells, L. W. West, G. P. Winn.

1654

(1) PHYFE, HERBERT LLOYD, 1001 Anderson Ave., New York City. (Age 22. Born Brooklyn, N. Y.) 1927 C. E., Lehigh Univ. *TT 4: SP 4.* Refers to S. A. Becker, R. J. Fogg, W. L. Wilson.

1655

(9) PLUMMER, FRED LEROY, Case School of Applied Science, Cleveland, Ohio. (Age 26. Born West Union, Ohio.) 1920 A. B. in Civ. Eng., Ohio Univ. 1922 B. S., and 1924 M. S. in Civ. Eng., Case School of Applied Sci. *TT 4: SP 4.* Sept. 1922 to date with Case School of Applied Science, Cleveland, Ohio, until Sept. 1926 as Instructor, teaching engineering mathematics and mechanics (2 years) and structural design (2 years), and since then Asst. Prof. of Civ. Eng. Since June 1924 also Cons. Engr., Sterling Eng. Co., Cleveland, chiefly municipal work. Short engagements on consulting work for Berger Iron Co. of Akron, Ohio, Mt. Vernon (Ohio) Bridge Co., and Westchester County Park Comm., Bronxville, N. Y. *TT 5.2: SP 2: P 3.2: RC 4.2: D 3. TT 9.2: SP 6: P 3.2: RC 1.2: D 3.* Refers to J. R. Griffith, A. G. Hayden, L. G. Holleran, C. A. Miller, F. H. Neff, W. J. Watson, I. M. Wolverton.

1656

(11) RANDOLPH, CARL LOWELL, 538 Naomi Ave., Arcadia, Cal. (Age 40. Born in Ottawa County, Kans.) Student in Civ. Eng., Univ. of Kansas (3 years) and Univ. of Colorado (½ year). *TT 1.5: SP 1.5.* Summer 1909 Chainman with County Surveyor, Montgomery County, Kans. March to May 1910 with Worley & Black, Kansas City, Mo., as Topographer, on railroad work. *TT 0.3: SP 0.3.* June to Aug. 1910 Rodman, Union Depot Terminal Ry. & Bridge Co., Kansas City. *TT 0.3: SP 0.3.* April to June 1912 Draftsman

with County Engr. on road maps for Montgomery County. *TT 0.3: SP 0.3.* Dec. 1912 to April 1914 with Valuation Dept., Atchison, Topeka & Santa Fe Ry. Co., Los Angeles, Cal., until Sept. 1913 as Rodman, then Estimator on bridges and buildings. *TT 1.4: SP 1.4.* April 1914 to date with Southern California Edison Co. as follows: April to Aug. 1914 Topographer and Draftsman on railroad location; Aug. 1914-June 1921 Kern River No. 3 power project, as Recorder, Topographer and Instrumentman (1 year), Transltman in charge of survey party on tunnel construction (Aug. 1915 to Jan. 1919), Asst. Engr. in charge of surveys and drafting office in connection with construction, some design (Jan. 1919 to Feb. 1920) and Asst. Res. Engr. on same work (Feb. 1920-June 1921); July 1921 to Sept. 1924 Geodetic Observer, triangulation, Big Creek project; Sept. 1924 to Oct. 1927 Asst. to Engr. on special problems, hydrographic and other studies, design, calculations, etc., of multiple arch dam, Designer of Shaver Lake Dam, etc. *TT 13.1: SP 2.8: P 10.3: RC 8.5: D 0.9.* *TT 16.9: SP 6.1: P 10.3: RC 8.5: D 0.9.* Refers to H. W. Dennis, A. B. Pierce, D. H. Redinger, R. C. Rice, O. A. Wait.

1657

(7) REARDON, JOHN MELVIN, 1305 Grand Ave., St. Paul, Minn. (Age 27. Born St. Paul, Minn.) 1922 B. S. in C. E., Univ. of Minn. *TT 4: SP 4.* April to Dec. 1922 Contr.'s Engr., and April to Nov. 1923 Asst. Supt. of Constr., Butler Bros. Bldg. Co., on state highway paving, had direct charge of grading, set stakes, made estimates, etc. (1922) and had direct charge of paving (29 miles) (1923). *TT 1.3: SP 0.2: P 1.1: RC 1.3.* Feb. to April 1923 Rodman, Atchison, Topeka & Santa Fe Ry. *TT 0.2: SP 0.2.* Dec. 1923 to date Asst. Engr., City of St. Paul, being Asst. Constr. Engr. on contract paving and sewer work, 2 years in direct charge of sewer construction (cost approx. \$3 000 000). *TT 3.8: P 3.8: RC 2.8: D 1.* *TT 9.3: SP 4.4: P 4.9: RC 4.1: D 1.* Refers to W. N. Carey, G. M. Garen, J. R. Johnston, D. I. Okes, S. R. Okes, G. M. Shepard.

1658

(1) REED, RALPH, 306 Cumberland St., Brooklyn, N. Y. (Age 22. Born Watertown, S. Dak.) 1926 B. S. in Civ. Eng., S. Dak. School of Mines. *TT 4: SP 4.* June 1926 to Jan. 1927 Draftsman and Computer, South Dakota Highway Comm. *TT 0.5: SP 0.5.* Feb. to June 1927 Tracer and Detaller, Kentucky Highway Dept., on culverts and small concrete structures. *TT 0.4: SP 0.4.* June 1927 to date Detailer, Post & McCord, New York City, on beams and girders of office buildings. *TT 0.4: SP 0.4.* *TT 5.3: SP 5.3.* Refers to A. Diefendorf, F. D. Hutchinson, J. C. Rathbun, W. B. Wendt.

1659

(9) RICE, WILLIAM ERNEST, 312 Overlook Park Drive, Cleveland, Ohio. (Age 45. Born Danville, Ind.) 1908 B. S. in C. E., and 1913 C. E., Purdue Univ. *TT 4: SP 4.* June 1908 to May 1911 Draftsman and later Instrumentman, Virginian Ry. *TT 2.9: SP 2.9.* May 1911 to April 1913 Res. Engr., Louisville & Nashville R.R., Tuscaloosa, Ala., on construction (11½ miles), including terminal yard and depots. *TT 1.9: P 1.9: RC 1.9.* April to June 1913 graduate student, Purdue Univ. June to Oct. 1913 Instrumentman, acting as Asst. Engr., Chicago & North Western Ry., Sioux City Div., on maintenance of way. *TT 0.4: P 0.4: RC 0.4.* Oct. 1913 to Jan. 1914 instrument work, U. S. Govt., on drainage surveys in Kentucky. *TT 0.3: SP 0.3.* Jan. to June 1914 Instrumentman and Chf. of Party for C. R. Humphreys, Wilmington, N. C., on surveys. *TT 0.5: SP 0.2: P 0.3: RC 0.3.* June to Nov. 1914 Inspector on concrete road construction, Universal Portland Cement Co., Chicago, Ill., being Road Advisor. *TT 0.4: SP 0.4.* Nov. 1914 to Dec. 1915 Div. Engr., State Road Comm., on improved road construction in Mercer County, W. Va. *TT 1.1: P 1.1: RC 1.1.* Dec. 1915 to Oct. 1917 Draftsman, Illinois Central R.R. *TT 1.8: SP 1.8.* Oct. 1917 to March 1918 Engr., Battleship Coal Co., in charge of mining surveys in Raleigh County, W. Va. *TT 0.4: P 0.4: RC 0.3: D 0.1.* March 1918 to Nov. 1926 Supervisor, New River & Pocahontas Consolidated Coal Co., Minden, W. Va., in charge of building construction and maintenance roads, water supply, sanitation and welfare work in New River field. *TT 8.7: P 8.7: RC 8.7: D 0.3.* Nov. 1926 to date Associate Prof. of Mun. Eng., Case School of Applied Science, Cleveland, Ohio. *TT 0.9: P 0.9: RC 0.7: D 0.2.* *TT 23.3: SP 9.6: P 13.7: RC 13.4: D 0.6.* Refers to D. J. Brumley, G. H. Hill, H. E. Hines, C. R. Humphreys, F. H. Neff, A. M. Traugott, D. L. Yarnell.

1660

(4) RUCKDESCHEL, CHARLES BERNARD, 1114 Marlyn Road, Philadelphia, Pa. (Age 32. Born Philadelphia, Pa.) 1923 C. E., Rens. Pol. Inst. *TT 4: SP 4.* June 1917 to June 1919 with Wm. E. Cramp & Sons, Philadelphia, Pa., as Ship Fitter's helper and Ship Fitter (last 6 months) in charge of erection of torpedo boat bows and sterns. *TT 2: SP 2.* June to Oct. 1923 Rodman, The Reading Co. *TT 0.4: SP 0.4.* Nov. 1923 to June 1927 with Delaware River Bridge Joint Comm., until June 1926 as Jun. Engr., then Asst. Engr., one

year on base line and triangulation surveys for location of Camden Anchorage, Camden Approach piers, and erection of the approach piers; after Dec. 1924 in charge (responsible to Res. Engr.) of Contract 15 for completion of Anchorages, Contract 27 for grading and paving Camden Approach, Fifth to Seventh Streets, Contract 28 for completion of Camden Approach and Contracts No. 31-A-B-C-D for construction of Administration Bldg., work included sinking four 16-ft. circular caissons 105 ft., setting and backing up granite veneer, setting steel, building two elevator towers (reinforced concrete, 180 ft. high), placing roadway slab, supervising interior trim, ornamental work and mechanical equipment; establishing sub grades, placing concrete base and asphalt paving, setting curbs and ornamental granite work, erection of toll booths, and supervision of plumbing, heating and electrical installations in the Administration Bldg. TT 3.7: P 3.7: RC 2.5. June 1927 to date with Pennsylvania R.R., Philadelphia improvements, on work in connection with construction of new terminal. TT 0.4: P 0.4. TT 10.5: SP 6.4: P 4.1: RC 2.5. Refers to C. L. Appleton, E. R. Cary, M. B. Case, C. E. Chase, R. Modjeski, G. S. Webster.

1661

(8) SANDERSON, JOHN CHRISTOPHER, 2705 Hartzell St., Evanston, Ill. (Age 54. Born Augusta, Kans.) 1898 B. S., Kans. Univ. TT 4: SP 4. 1898 to 1899 Steel Detailer, Keystone Bridge Works. TT 1: SP 1. 1899 to 1903 Detailer and Designer with Waddell & Hedrick. TT 4: P 4: RC 2: D 1. 1903 to 1910 Bridge Designer, Chicago & North Western R. R. TT 7: P 7: RC 7. 1910 to 1915 Bldg. Designer with Ritter & Mott (4 years) and City of Chicago, Ill. (1 year). TT 5: P 5: RC 5. 1915 to date Constr. Engr. with Sargent & Lundy. TT 12: P 12: RC 12. TT 33: SP 5: P 28: RC 26: D 1. Refers to F. W. Adgate, L. J. Hotchkiss, J. L. McConnell, W. S. Monroe, H. von Unwerth.

1662

(10) SCHEIRER, MERRILL KLECKNER, State Highway Dept., Nashville, Tenn. (Age 31. Born Catasauqua, Pa.) 2 years student in Civ. Eng., Carnegie Inst. of Technology. TT 1: SP 1. July 1915 to Sept. 1918 Inspector, Bureau of Standards, testing and inspecting cement, etc., assisting in standardizing apparatus and methods. TT 3: SP 3. Sept. 1918 to Jan. 1919 at Observers School, U. S. Army, Air Service Signal Corps. Sept. 1919 to Jan. 1922 Inspector, New Jersey Highway Dept. inspecting and testing road materials and pavements, concrete research, in charge of materials plant and proportioning plant on concrete roadway construction. TT 2.4: SP 0.4: P 2: RC 2. Jan. 1922 to Jan. 1924 Jun. Testing Engr., North Carolina Highway Comm., in charge of testing road materials, research, etc. TT 2: P 2: RC 2. Jan. 1924 to date Physical Testing Engr., Tennessee Highway Dept., material surveys and plant control, in charge of concrete laboratory, design of methods and concrete mixtures, research work, material study, etc. TT 4: P 4: RC 3: D 1. TT 12.4: SP 4.4: P 8: RC 7: D 1. Refers to R. H. Baker, C. N. Bass, H. A. Burr, C. W. Butts, J. E. Moreland, C. H. Olmstead, W. H. Wilson.

1663

(10) SCHREFFLER, LOVDEN GILBERT, P. O. Box 21, Miami, Fla. (Age 32. Born Newport, Pa.) Licensed Engr., States of North Carolina and Florida. 1915 B. S. in Arch. Eng., Pa. State Coll. TT 4: SP 4. Aug. 1915 to Feb. 1916 Laborer and Timekeeper on concrete highway bridge with Whittaker & Diehl, Harrisburg, Pa. TT 0.6: SP 0.4: P 0.2: RC 0.2. Oct. 1917 to April 1919 with Infantry, Gas Défense, U. S. Army, in France and Italy. Feb. 1916 to Sept. 1917 Draftsman and later in charge Mech. Operator Dept., Youngstown, Ohio, and May to Nov. 1919 with Estimating Dept., part of time in Philadelphia office in charge of sash estimating, for Truscon Steel Co. TT 2.2: SP 1.5: P 0.7: RC 0.7. Nov. 1919 to Feb. 1921 Structural Engr. with State Archt., Raleigh, N. C., in charge of structural engineering on all state buildings, including institutional buildings. TT 1.3: P 1.3: RC 1.3: D 1.3. Feb. to June 1921 Engr., Southern Eng. Co., Charlotte, N. C. TT 0.3: P 0.3: D 0.3. June 1921 to Nov. 1922 Structural Engr., Joint Bldg. Comm., Raleigh, in charge of all engineering design on five state institutional buildings. TT 1.4: P 1.4: RC 1.4: D 1.4. Feb. 1923 to July 1925 Structural Engr., Atwood & Nash, Inc., Chapel Hill, N. C., in charge of all engineering design and engineering and architectural supervision of all work, including buildings for Univ. of Carolina. TT 2.3: P 2.3: RC 2.3: D 2.3. July 1925 to date Engr., Brewer & Co., Inc., Miami, Fla., being Chf. Engr. in charge of design, estimating and re-enforcing steel fabricating plant; designed and supervised construction of plant. TT 2.3: P 2.3: RC 2.3: D 2.3. TT 14.4: SP 6: P 8.3: RC 8.3: D 7.7. Refers to T. C. Atwood, G. M. Braune, W. J. Kackley, O. A. Sandquist, R. D. Snodgrass, R. I. Webber.

1664

(1) SIPPLES, BERNARD JOSEPH, 767 Lafayette Ave., Buffalo, N. Y. (Age 33. Born Fall River, Mass.) 1921 graduated in Arch. Eng., Pratt Inst. Nov. 1914 to May 1916 Asst. Foreman of construction of frame and brick dwellings, Wm. Dacey Co., Fall River, Mass.

TT 1.5: SP 1.5. May to Nov. 1916 Foreman on reinforced concrete, building construction, Austin Constr. Co. TT 0.6: SP 0.6. Dec. 1916 to June 1917 Foreman in charge on bank building, E. Brooks Co. TT 0.6: SP 0.6. July 1917 to Aug. 1919 with U. S. Naval Aviation Service. 1919 to June 1921 student, Pratt Inst. April to Nov. 1923 Inspector of construction, Board of Water Supply, New York City, on Shandaken Tunnel. TT 0.6: SP 0.6. Nov. 1923 to April 1924 with J. Russell White, Albany, N. Y., writing specifications and drafting on apartment-house, high-school, and residential buildings, layout work, etc. TT 0.5: P 0.5. Aug. to Nov. 1924 Squad Boss, Murrie Eng. Co., estimating and appraisal work on New York Edison Co. buildings. TT 0.3: P 0.3: RC 0.3. March 1925 to April 1926 Supt. of Constr., 1 month for J. K. Taylor Co. on Greenpoint bed factory, and 1 year laying out and erecting destructors for Morse Boulger Co. TT 1.1: P 1.1: RC 1.1. TT 5.2: SP 3.3: P 1.9: RC 1.9. Refers to J. J. Durfee, J. A. Guttridge, G. G. Honness, J. D. Moore, L. E. Robbe, M. T. Thompson.

1665

(14) SNEED, THEO WAYNE, Osceola, Ark. (Age 22. Born Sherman, Tex.) 1926 B. S. in Civ. Eng., Univ. of Ala. TT 4: SP 4. June 1926 to date Inspector (Levee), U. S. Govt. TT 1.3: SP 1.3. TT 5.3: SP 5.3. Refers to B. O. Bennett, G. J. Davis, Jr., W. Fennell, S. C. Houser, A. F. Stanford.

1666

(2) SPRAGUE, EMBERT HIRAM, Univ. of Maine, Orono, Me. (Age 51. Born Haverhill, Mass.) 1900 B. S., Dartmouth Coll. TT 4: SP 4. June to Dec. 1900 Draftsman and Timekeeper, New England Telephone & Telegraph Co., at Haverhill, Lawrence and Lowell, Mass., building conduits. TT 0.5: SP 0.5. Dec. 1900 to Dec. 1902 and April 1903 to April 1904 Draftsman, until May 1902 with American Bridge Co., Pencoyd, Pa. then with Ritter-Conley Co., Pittsburgh, Pa., and after April 1903 on bridge design with Central South African Rys., Johannesburg, South Africa. TT 3: SP 3. April 1904 to March 1905 Erection Engr., Blaisdell Co. of Los Angeles, Cal., on special sand excavators for mining reduction plants at Johannesburg. TT 1: SP 1. March 1905 to Feb. 1908 with H. Eckstein Co., Mining Engrs., Johannesburg, until Jan. 1906 designing layouts for Blaisdell sand-treatment plants then Sampler and Surveyor, Nourse Mine and after Jan. 1907 Chf. Surveyor, South Nourse Mine. TT 2.9: SP 1.8: P 1.1: RC 1.1. Feb. 1908 to May 1909 with Consolidated Gold Mines of South Africa, until April 1909 at Simmer Deep G. M. Co. as Shift Boss in charge of underground workings, originated and made new type of assay plan, and after April 1909 at Jupiter G. M. Co., special and original work on assay plans showing location of values in underground and workings. TT 1.4: P 1.4: RC 1.4: D 0.2. June 1909 to April 1911 not on engineering work. April 1911 to June 1913 Chf. Engr. with Mulcahy & Gibson, and June 1913 to June 1914 Asst. Engr. with Post & McCord, New York City, on steel buildings. TT 3.2: SP 1: P 2.2: RC 2.2. Sept. 1914 to Jan. 1915 Res. Engr., Maine State Highway Dept., on bridge erection. TT 0.4: P 0.4: RC 0.4. Feb. 1915 to Sept. 1920 Associate Prof., Sept. 1920 to Sept. 1926 Prof. of Civ. Eng., and Sept. 1926 to date Head, Dept. of Civ. Eng., Univ. of Maine. TT 12.8: P 12.8: RC 7: D 12.8. TT 29.2: SP 11.3: P 17.9: RC 12.1: D 13. Refers to P. L. Bean, H. S. Boardman, C. B. Breed, C. B. Brown, O. E. Hovey, P. D. Sargent.

1667

(9) STEVENS, DONALD FRENCH, 11209 Lake Ave., Cleveland, Ohio. (Age 45. Born Minneapolis, Minn.) June to Sept. 1901 Axeman, June to Sept. 1903 Rodman, and Sept. 1905 to May 1907 Asst. Roadmaster on maintenance of way, Great Northern R. R. TT 2.2: SP 0.5: P 1.7. June to Sept. 1902 Timekeeper, Canadian Pacific R. R., bridge work. TT 0.2: SP 0.2. May to Dec. 1904 and May to Sept. 1907 Foreman on ballasting and maintenance-of-way, and Dec. 1904 to Sept. 1905 Clerk, transportation, Rock Island R. R. TT 1.7: SP 1.3: P 0.4. Oct. 1907 to Feb. 1908 Yardmaster, Feb. 1908 to Oct. 1913 Trainmaster, and Oct. 1913 to May 1914 Terminal Trainmaster, transportation, New York, New Haven & Hartford R. R. TT 6: P 6: RC 6. May 1914 to date with Baltimore & Ohio R. R. as follows: May to Nov. 1914 Asst. Supervisor, fuel consumption; Nov. 1914 to May 1915 Trainmaster; May 1915 to Jan. 1916 Asst. Supt., transportation; Jan. 1916 to April 1923 Supt., and since April 1923 Gen. Supt., on transportation engineering and maintenance-of-way. TT 13.5: P 13.5: RC 13.5. TT 23.6: SP 2: P 21.6: RC 19.5. Refers to R. N. Beglen, R. Budd, A. R. Carver, H. A. Lane, J. F. Stevens.

1668

(8) STURM, ROLLAND GEORGE, 607 Ohio St., Urbana Ill. (Age 28. Born Riverview, Ill.) 1924 B. Sc. in C. E., Univ. of Nebr. 1926 M. S., Univ. of Ill. TT 4: SP 4. Summer 1923 Laborer and Sub-Contr. making expansion joints for concrete pavements. Sept. 1923 to Feb. 1924 (part of time) Student Asst., Surveying and Applied Mechanics Laboratory, Univ. of Nebraska. March to June 1924 (part of time) in Bridge Office, Nebraska State

Dept. of Public Works, designing simple structures and drafting. July 1924 to Sept. 1925 and Summer 1926 Jun. Structural Engr., Dist. No. 5, U. S. Bureau of Public Roads, checking plans, field inspections and recommendations and design investigation, etc. *TT 1.5: P 1.5: RC 0.3: D 0.4.* Sept. 1925 to June 1926 at Univ. of Illinois as Graduate Student, and on special research work for A. S. C. E. Committee on Reinforced Concrete Arches (under Prof. W. M. Wilson). *TT 0.7: P 0.7.* Sept. 1926 to date Instructor of Theoretical and Applied Mechanics, Univ. of Illinois; part of time on graduate work and research. *TT 1: P 1.* Summer 1927 on bridge design, Illinois State Div. of Highways, revising standards and major design. *TT 0.2: P 0.2: D 0.2.* *TT 7.4: SP 4: P 3.4: RC 0.3: D 0.6.* Refers to G. L. Campen, H. Cross, M. L. Enger, M. S. Ketchum, C. E. Mickey, C. C. Williams, W. M. Wilson.

1669

(1) TIPPETT, DAVID GIBB, 849 West 178th St., New York City. (Age 22. Born Cape Town, South Africa.) 1926 B. S. in C. E., Univ. of Cape Town, South Africa. *TT 4: SP 4.* May to July 1927 Pupil Engr. with Sir Alexander Gibb & Partners, Cons. Engrs., London, on Jun. Engrs. work, drafting and field work. *TT 0.2: SP 0.2.* Sept. 1927 to date Jun. Engr., The Port of New York Authority, on field survey work in connection with Hudson River Bridge. *TT 0.2: SP 0.2.* *TT 4.4: SP 4.4.* Refers to M. B. Case, A. Gibb, R. F. Wheadon.

1670

(11) VAN ZANDT, JEROME GOODSPEED, Gibson Station, San Pedro, Cal. (Age 44. Born Chicago, Ill.) 1904 B. S. in Civ. Eng., Purdue Univ. 1906 C. E., Univ. of Wis. *TT 4: SP 4.* 1905 to 1907 Instructor in Civ. Eng., Univ. of Wisconsin. *TT 2: SP 2.* 1908 to 1909 Associate Prof. of Civ. Eng., Univ. of Southern California, in full charge of surveying, railway location, foundations. *TT 1: P 1.* 1910 to 1918 in private practice, Los Angeles, Cal., on highway location and irrigation projects, dams, canals and reservoirs and power-plant location and on design for private parties. *TT 8: P 8: RC 5: D 3.* 1918 to 1919 in Purchasing Engr.'s office, A. E. F., Paris, France, as Inspecting Engr. Officer in charge of purchasing engineering supplies for U. S. Army. *TT 1: P 1: RC 1.* 1919 to 1920 with Arthur S. Bent Constr. Co., as Supt. and Res. Engr., in charge of canal construction, Tucson Farms Irrigation Project. *TT 1: P 1: RC 1.* 1921 to 1922 Constr. Engr., Southern Sierras Power Co., Riverside, Cal., in full charge of survey parties on preliminary canal location for hydro-electric plant. *TT 1: P 1: RC 1.* 1922 to 1925 Cons. Engr., at Los Angeles, on hydro-electric power plant location and construction in Southern California. *TT 3: P 3: RC 3.* 1925 to date Cons. Engr. successively with Braden Copper Co., Chile, on canal intake for hydro-electric plant (6 months), with Kemmerer Comm. to Republic of Chile, inspection and report of investigation of state railroads of Chile (6 months) and (1927) with Republic of Chile on Valparaiso water-supply aqueduct and power development and Special Comm. of Engrs. for investigation. *TT 1.5: P 1.5: RC 0.5: D 0.5.* *TT 22.5: SP 6: P 16.5: RC 11.5: D 3.5.* Refers to H. W. Dennis, W. K. Hatt, G. S. Hinckley, W. L. Huber, C. T. Leeds, W. D. Pence.

1671

(1) VOIGT, PAUL ALEXANDER, 10909 Ninety-Sixth St., Ozone Park, N. Y. (Age 24. Born Brooklyn, N. Y.) 1925 B. S. C. E., Cooper Union. Sept. 1919 to Dec. 1923 Asst. to Chf. Engr., The Barrett Co., New York City, on machine design, plant layout, and building-construction details. *TT 1.4: SP 1.4: D 1.4.* Dec. 1923 to Sept. 1925 Chf. of Surveying Party, drilling, dredging, etc., U. S. Engr. Dept., War Dept., 1st Dist., New York City. *TT 1.8: SP 0.8: P 1: RC 0.5: D 0.5.* Sept. 1925 to date Asst. to Mgr., Industrial Div., Johns-Manville Corporation, New York City, on construction connected with roofing materials. *TT 2.3: SP 1: P 1.3: RC 1.* *TT 5.5: SP 3.2: P 2.3: RC 1.5: D 1.9.* Refers to H. R. Codwise, F. E. Foss, W. F. Matthias, N. Podoloff, J. P. J. Williams.

1672

(4) VOLLMER, ALEXANDER RUSSELL, 7 North Cambridge Ave., Ventnor City, N. J. (Age 22. Born Philadelphia, Pa.) 1927 C. E., Cornell Univ. *TT 4: SP 4.* Aug. 1927 to date Instrumentman and Draftsman with City Engr. of Ocean City, N. J. *TT 0.3: SP 0.3.* *TT 4.3: SP 4.3.* Refers to F. A. Barnes, W. H. Collisson, Jr., H. N. Ogden, J. B. Perry, R. Y. Thatcher.

1673

(8) WEBER, FREDERICK SPENCER, 459 East Broadway, Alton, Ill. (Age 24. Born Grand Rapids, Mich.) 1926 B. S. in Civ. Eng., Univ. of Mich. *TT 4: SP 4.* Sept. 1926 to date with Harrington, Howard & Ash, Cons. Engrs., as Draftsman and Field Engr., some design. *TT 1.1: SP 0.7: P 0.4: D 0.3.* *TT 5.1: SP 4.7: P 0.4: D 0.3.* Refers to L. R. Ash, L. M. Gram, E. E. Howard, H. E. Riggs, H. C. Tammen.

1674

(3) **WEBER, JOSEPH CLARENCE, Jr.**, 1306 St. Paul St., Rochester, N. Y. (Age 29. Born Rochester, N. Y.) Aug. 1922 to March 1923 Minor Inspector, Eng. Dept., Rochester, N. Y., on subway construction. *TT 0.6: SP 0.6.* March to July 1923 Instrumentman for G. R. Newell, Rochester, on subdivision work. *TT 0.3: SP 0.3.* July 1923 to March 1924 Instrumentman, Rochester Gas & Elec. Corporation, on triangulation survey for hydro-electric project at Mt. Morris, N. Y. *TT 0.7: SP 0.7.* March to Oct. 1924 Instrumentman in charge of party and Inspector on sewer construction, Brighton, N. Y., with W. S. Lozier, Inc. *TT 0.6: SP 0.6.* Nov. 1924 to May 1925 Jun. Asst. Engr., Grade 1, New York State Dept. of Eng., acting as Instrumentman and Draftsman. *TT 0.5: SP 0.5.* June 1925 to July 1926 Office Engr. and Asst. Supt. of Constr., Armstrong Cork & Insulation Co., cold-storage construction. *TT 1.1: P 1.1: RC 1.1: D 1.1.* Sept. 1926 to Jan. 1927 Res. Engr., in charge of water-works construction for Jas. P. Wells at Nunda, N. Y., also in office on design. At present Jun. Asst. Engr., Grade 1 (Field), New York State Dept. of Public Works, Div. of Highways, Div. No. 5. *TT 0.3: P 0.3: RC 0.3.* *TT 4.1: SP 2.7: P 1.4: RC 1.4: D 1.1.* Refers to C. C. Cooman, N. H. Davidson, C. E. Elmendorf, T. J. Morrison, P. F. Stephens, J. P. Wells.

1675

(1) **WELLS, GEORGE STANLEY**, Digboi, P. O., Upper Assam, India. (Age 34. Born Harton, South Shields, England.) 1923 B. Sc. in Eng., Kings Coll., Univ. of London. *TT 4: SP 4.* 1910 to 1913 with his father, G. Wells, Eng. Contr., Durham, England. *TT 3.1: SP 3.1.* 1913 to 1917 Pupillage with G. Kents, Ltd., Hydr., Engrs., London, England. *TT 3.3: SP 3.3: D 1.* 1917 to 1919 Lieut., Royal Engrs., British Army, in France. *TT 2.7: P 2.7.* 1920 to 1923 student, Kings Coll. 1923 to 1925 Asst. Engr., S. Pearson & Sons, Ltd., on construction of Sennar Dam on Blue Nile, Sudan, Egypt, and Gezira Irrigation project. *TT 2: P 2: RC 2.* 1925 to date Civ. Engr. in charge of construction, Burmah Oil Co., Ltd., at Assam Oil Co.'s oil field, Digboi, Assam, water supply, roads, railways, etc. *TT 2: P 2: RC 2: D 2.* *TT 17.1: SP 10.4: P 6.7: RC 4: D 3.* Refers to T. L. Bonstow, J. Forgie, H. Japp. (Applies in accordance with Sec. 1, Art. I, of the By-Laws.)

1676

(8) **WERNENTIN, EDWIN GERHARDT**, 6328 South Peoria St., Chicago, Ill. (Age 25. Born Davenport, Iowa.) 1925 B. S. C. E., Iowa State Coll. *TT 4: SP 4.* July 1925 to Nov. 1926 with McClintic-Marshall Constr. Co., until Feb. 1926 as Draftsman detailing steel buildings at Pittsburgh, Pa., then Field Engr. and Asst. to Gen. Supt. at Chicago, Ill., in charge of field work on construction of new plant. *TT 1.4: SP 0.6: P 0.8: RC 0.5.* Nov. 1926 to date Draftsman, Chicago, Rock Island & Pacific Ry., bridge designing, detailing and checking. *TT 1: P 1: RC 0.3.* *TT 6.4: SP 4.6: P 1.3: RC 0.8.* Refers to T. R. Agg, A. A. Clausen, A. H. Fuller, N. M. Liddell, A. Marston, N. Welden.

1677

(15) **WHITE, WILLIAM ERICKSON**, Care, The Rice Inst., Houston, Tex. (Age 35. Born Spokane, Wash.) Registered Prof. Engr. and Land Surveyor, State of South Dakota. 1922 B. S. in Civ. Eng., Iowa State Coll. *TT 4: SP 4.* April 1919 to Sept. 1920 with R. C. Lutze, Cons. Engr., Perry, Iowa, as Instrumentman and Asst. Engr. on construction and preliminary surveys for city pavements, sewage systems and county drainage. *TT 1.5: SP 1: P 0.5: D 0.5.* March 1922 to June 1923 Research Asst., U. S. Bureau of Public Roads and Iowa Eng. Experiment Station (co-operative project), Iowa State Coll. highway research. *TT 1.3: P 1.3: RC 1.3.* June to Nov. 1923 Asst. Supt., Geo. T. Wilhelm Constr. Co., Helena, Ark., supervising construction of concrete pavements, principally as Road-Foreman. *TT 0.5: SP 0.5.* Nov. 1923 to Sept. 1925 with Little River Drainage Dist., Cape Girardeau, Mo., as Instrumentman, on preliminary surveys, computations and design and (1 year) Project Engr. on construction, drainage channels and levees. *TT 1.9: SP 0.7: P 1: RC 1: D 0.2.* Sept. 1925 to Sept. 1927 with C. E. Dept., South Dakota State Coll., 1 year as instructor and 1 year Asst. Prof. *TT 2: P 2: RC 1.* Sept. 1927 to date Instructor, Civ. Eng. Dept., The Rice Inst., since 1925 also did small amount of materials inspection and testing, farm surveys, design of small dams, and checking of steel structures. *TT 0.3: P 0.3.* *TT 11.5: SP 6.2: P 5.3: RC 3.8: D 0.2.* Refers to T. R. Agg, E. S. Blaine, H. S. Carter, R. A. Caughey, A. H. Fuller, L. L. Hiding, L. B. Ryon, Jr.

1678

(1) **WOOTTEN, ANGUS GOSS**, Board of Transportation, New York City. (Age 26. Born Athens, Ga.) Student in Civ. Eng., Univ. of Georgia (3 years) and in Elec. Eng., Georgia Inst. of Technology (1 year). *TT 2: SP 2.* June to Oct. 1925 Draftsman, State Highway Dept. of Georgia, on plans and estimates. *TT 0.3: SP 0.3.* June 1926 to June 1927 Instrumentman, Draftsman, Topographer and Computer, Seaboard R. R., on surveys for 500-mile

trunk line; had charge of making estimate of cost of construction. *TT 1: SP 1.* June 1927 to date Jun. Engr., Board of Transportation, New York City, on Fulton St. Subway Tunnel under East River, base line and plumbing buildings in financial district. *TT 0.6: SP 0.6. TT 4: SP 4.* Refers to J. W. Barnett, G. M. Branne, J. H. Johnston, F. H. McDonald, R. Ridgway, S. B. Slack, C. A. Smith, C. M. Strahan.

FOR TRANSFER

FROM THE GRADE OF ASSOCIATE MEMBER

1679

(8) **ALLEN, JEAN MARCH**, Assoc. M., 332 South Michigan Ave., Chicago, Ill. (Elected Jan. 31, 1911.) (Age 49. Born Green Bay, Wis.) 1899 to 1901 Special Student in Mech. and Civ. Eng., Univ. of Wisconsin. *TT 1: SP 1.* 1897 to 1899 Foreman with Jas. A. Allen, on dredging and pile driving. *TT 2: SP 2.* 1901 to 1902 Draftsman, Prescott Co., Menominee, Mich. *TT 1: SP 1: D 1.* March to Sept. 1902 Chf. Draftsman, Featherstone Co., Chicago, Ill. *TT 0.5: P 0.5: D 0.5.* Sept. 1902 to Aug. 1906 Draftsman and Field Engr., Bucyrus Co. *TT 4: P 4: D 4.* Aug. 1906 to March 1907 and May to Dec. 1907 Supt. of dredging, successively with Western Dredging Co., Omaha, Nebr., and Dolese Bros. and Fox & Smith, both of Kansas City, Mo. *TT 1.3: P 1.3: RC 1.3.* March to Nov. 1908 Supt. of revetment work, Atchison & Eastern Bridge Co. *TT 0.8: P 0.8: RC 0.8.* Nov. 1908 to Feb. 1910 Supt. of dredging, Cairo Contr. & Dredging Co. *TT 1.3: P 1.3: RC 1.3.* Feb. to July 1910 Mech. Engr., Jas. Stewart Co. *TT 0.5: P 0.5: RC 0.5.* July 1910 to Aug. 1914 and Aug. 1916 to Aug. 1917 Supt. of dredging, successively with S. Pearson's Sons, American Pipe & Constr. Co., San Francisco Bridge Co., and (after Aug. 1916), McWilliams Dredging Co. *TT 4: P 4: RC 4.* Aug. 1917 to Feb. 1920 Chicago Representative, Emergency Fleet Corporation. *TT 2.3: P 2.3: RC 2.3.* Feb. 1920 to Feb. 1921 Supt., harbor work, Board of Public Works, Manila, Philippine Islands. *TT 1: P 1: RC 1.* Oct. 1924 to Aug. 1926 Gen. Supt., Reynolds Dredging Co., New Orleans, La. *TT 1.7: P 1.7: RC 1.7.* Aug. 1914 to Aug. 1916, Feb. 1921 to Oct. 1924 and Aug. 1926 to date Cons. Engr. at Chicago, designed, redesigned and installed dredges, etc. *TT 6.8: P 6.8: D 6.8. TT 28.2: SP 4: P 24.2: RC 12.9: D 12.3.* Refers to A. T. Dusenbury, E. J. Fucik, E. M. Graves, G. B. Massey, S. M. Savage.

1680

(1) **BESWICK, JAMES EVERETT**, Assoc. M., 54 Wall St., New Brighton, N. Y. (Elected Junior July 1, 1909; Assoc. M. Oct. 1, 1913.) (Age 45. Born Hermon, N. Y.) Prof. Engr. and Land Surveyor, New York State. 1903 B. S. in C. E., Clarkson Coll. *TT 4: SP 4.* 1902 Asst. in mathematics, Clarkson Coll. Sept. 1903 to Aug. 1904 with Waring, Chapman & Farquhar, New York City, as Engr. on construction of sewers and sewage-disposal systems. *TT 0.9: P 0.9: RC 0.9.* Aug. 1904 to June 1905 Transitman, Rapid Transit Subway Constr. Co. *TT 0.9: SP 0.9.* June 1905 to Sept. 1907 Asst. Engr. and Rodman, Rapid Transit Comm., New York City, on construction of Battery Tunnel and Fulton St. Subway, Brooklyn. *TT 2.2: P 2.2: RC 2.2.* Oct. 1907 to Aug. 1913 Asst. Engr., Board of Water Supply, New York City, on construction of Catskill Aqueduct, surveys, and open cut and tunnel aqueduct construction, had charge at Shaft No. 17 during sinking of shaft and driving of tunnel. *TT 5.8: P 5.8: RC 5.8.* Sept. 1913 to May 1915 Asst. Engr., State Highway Comm., New York State, being Asst. to First Deputy Commr., confidential work, grade-crossing and highway inspections; 3 months Acting Res. of Erie Co. *TT 1.6: P 1.6: RC 1.6.* May 1915 to May 1920 Engr., Public Service Comm., New York State, First Dist., in charge of field work on section of subway construction including three stations, open cut subway and about one-half of twin tube shield driven tunnels; some office detail. *TT 5: P 5: RC 4.* May 1920 to Aug. 1922 with New York Water Power Investigation, compiling data stream flow studies, etc. *TT 2.3: P 2.3: RC 1.* Nov. 1922 to Feb. 1924 Res. Engr., City Wastes Disposal Co., on construction of sewers and digestion tank for Village of Rye, N. Y. (\$225 000). *TT 1.3: P 1.3: RC 1.3.* March 1924 to April 1925 Engr. in charge of construction of Hicks-ville Water Dist., including 18 miles of mains, two 150-ft. wells, building pumping stations and tank (\$300 000). *TT 1.1: P 1.1: RC 1.1.* May 1925 to date San. Engr., Village of Rye, supervised plans, specifications and construction of sewer extensions and two pumping stations (to cost \$266 000). *TT 2.3: P 2.3: RC 2.3: D 2.3. TT 27.4: SP 4.9: P 22.5: RC 20.2: D 2.3.* Refers to F. C. Boes, J. P. Hogan, E. W. Maloney, G. A. Ricker, R. Ridgway, C. E. Sudler.

1681

(6) **BONNER, JOHN POLLOCK**, Assoc. M., Woodlawn Ave., Beckley, W. Va. (Elected Jan. 15, 1917.) (Age 40. Born Philadelphia, Pa.) 1912 C. E., Cornell Univ. *TT 4: SP 4.* Aug. 1906 to Sept. 1907 Axeman, Baltimore & Ohio R. R. *TT 1.2: SP 1.2.* June to Sept.

1908 Rodman, Seaboard Air Line. July 1909 to Oct. 1910 Rodman, Draftsman and Asst. Res. Engr., and Aug. 1912 to Aug. 1913 Draftsman and Asst. Engr., Chesapeake & Ohio Ry. Co., on location and construction. *TT 2.3: SP 0.5: P 1.8: RC 0.3: D 1.5.* Aug. 1913 to Feb. 1914 Res. Engr., Princeton Univ., on construction of sewage-purification plant, 2 miles sewer. *TT 0.5: P 0.5: RC 0.5.* Feb. to Sept. 1914 and June 1915 to Feb. 1916 Asst. Engr., Baltimore Sewerage Comm., until Sept. 1914 being Chf. of preliminary survey party, and remainder of time on construction of sanitary sewers. *TT 1.3: P 1.3: RC 1.3.* Sept. 1914 to June 1915 Asst. Engr., Norfolk, Washington & Newport News Ry., on location (160 miles). *TT 0.7: P 0.7: D 0.7.* Feb. 1915 to Aug. 1917 Draftsman and Res. Engr., C. & O. Ry. Co., on construction. *TT 1.5: P 1.5: RC 0.7: D 0.7.* Aug. 1917 to Jan. 1919 Capt., Coast Artillery Corps, U. S. Army. *TT 1.5: SP 1.5.* Jan. 1919 to Feb. 1920 Asst. Engr., E. M. Merrill Eng. Co., Beckley, W. Va., engineering, surveys and mine development. *TT 1: P 1: RC 0.5: D 0.5.* Feb. 1920 to Aug. 1921 Res. Engr., Greenbrier & Eastern Ry. Co., on construction (12 miles). *TT 1.6: P 1.6: RC 1.6.* Aug. 1921 to date member of firm, Scott & Bonner, Civ., Min. and Cons. Engrs., Beckley, on railroad location and valuation, mine development and reports, highway construction, etc., including road construction (\$500 000) for Raleigh County, W. Va., development of various and companies (names given in application), and subdivision development in Beckley, Lewisburg and Oakhill, W. Va. *TT 6.2: P 6.2: RC 2.5: D 2.5.* *TT 20.4: SP 5.7: P 14.7: RC 7.5: D 6.* Refers to C. M. Blinford, F. C. Colcord, A. C. Copland, H. W. Edwards, M. Hansford, J. H. Harvell, C. W. Johns, F. Von Roy, Jr.

1682

(7) **CHILDS, JAMES ALANSON**, Assoc. M., 1988 Summit Ave., St. Paul, Minn. (Elected April 18, 1916.) (Age 41. Born Fergus Falls, Minn.) 1909 C. E., Univ. of Minn. *TT 4: SP 4.* Summers 1907 and 1908 Rodman and Transitman, Minnesota Transfer Ry. Co. Aug. 1909 to Sept. 1927 (except Sept. 1918 to March 1919) with Minnesota Dept. of Health, until May 1914 as Asst. Engr., under State Board of Health Engr. on examination of plans and field investigations of water-works and sewerage systems, including treatment plants, plans of hospitals, schools, etc., remainder of time Engr., Div. of Sanitation, in responsible charge of engineering work, including office and field consulting, examination of plans, and preparation of reports on water-works and sewerage systems, including water-purification and sewage-treatment plants for institutions, and of material for department bulletins; after Jan. 1922 also Collaborating San. Engr., U. S. Public Health Service for investigating water supplies for interstate traffic; also Asst. Prof., Dept. of Preventive Medicine and Public Health, Univ. of Minnesota. *TT 17.6: SP 9.1: P 8.5: RC 8.5.* Sept. 1918 to March 1919 Capt., San. Corps, U. S. Army, being Camp San. Engr. at Camp Jackson, S. C., on general supervision of water supply and sewerage system. *TT 0.5: SP 0.5.* Sept. 1927 to date Chf. Engr. and Secy., Metropolitan Drainage Comm., in direct charge of and responsible for investigation of sewage disposal problem of Metropolitan area of St. Paul and Minneapolis. *TT 0.2: P 0.2: RC 0.2.* *TT 22.3: SP 13.6: P 8.7: RC 8.7.* Refers to F. Bass, O. E. Brownell, W. N. Carey, J. E. Carroll, O. Claussen, E. W. Kelly, D. A. Reed, G. M. Shepard, L. P. Wolff.

1683

(13) **COLLINS, MERTON CLYDE**, Assoc. M., P. O. Box 83, Ross, Cal. (Elected Junior Sept. 3, 1913; Assoc. M. June 18, 1918.) (Age 37. Born Denver, Colo.) 1912 B. S. in C. E., Univ. of Cal. *TT 4: SP 4.* May 1912 to Feb. 1913 Asst. Engr., Northern Elec. Ry. Co., drafting and (6 months) in charge of field valuation survey of structures. *TT 0.8: SP 0.3: P 0.5.* Feb. to Aug. 1913 Structural Engr., Bureau of Architecture, San Francisco, Cal., on design of schools, police station and exposition auditorium. *TT 0.5: P 0.5: D 0.5.* Aug. 1913 to Feb. 1916 Civ. Engr., California Highway Comm., Div. IV, until Nov. 1914 on design of highway bridges, retaining walls and drainage structures, then on design and construction of three reinforced concrete highway bridges, Marin County; and after June 1915 Asst. Res. Engr. on construction of concrete highway, bridges and drainage structures, Santa Clara and Santa Cruz Counties. *TT 2.5: P 2.5: RC 1.3: D 1.9.* Feb. 1916 to July 1918 with Bureau of Public Works, Philippine Islands, as follows: Feb. to Aug. 1916 in Manila office on design of highway bridges and port works structures; Aug. 1916 to March 1917 Asst. Dist. Engr., Iloilo Province, in sole charge of redesign, shop fabrication and erection of structural steel for Custom House; March 1917 to March 1918 Dist. Engr., Cotabato Province, in charge of design and construction of roads, trails, bridges, ferries, hospitals, schools, telephones, water supplies, markets, port works, etc.; March to July 1918 in Manila office on design of highway bridges and port works structures. *TT 2.4: P 2.4: RC 1.5: D 2.4.* July 1918 to Jan. 1919 1st Lieut., Engrs., U. S. Army, at Camps Humphrey and Shelby, being Commanding Officer, Co. A, 566th Eng. Serv. Battalion. June 1917 to June 1924 Reserve Commission. *TT 0.5: P 0.5: RC 0.3.* March to May 1919 with M. C. Couchot, Cons. Engr., San Francisco, on

design
Engr.
highwa
tural
structu
to Ma
design
and t
Buildi
Macdo
design
1925
design
April
design
includ
and
SP 4
E. C.

(11)
1920
mer
ment
comp
Res.
some
RC
Mar
Ken
way
Chf.
brid
P 7
F. C.

(8)
(E)
of
191
sur
191
one
P
Su
wo
Fe
19
br
19
TH
SH
M

(1)
(1)
J
A
1
G
E
M
7

design of Ogden Sperry flour mill. *TT 0.2: P 0.2: D 0.2.* May 1919 to Feb. 1920 Highway Engr. on Bridges, U. S. Bureau of Public Roads, design, inspection, estimates and reports on highway bridges in California and Nevada. *TT 0.8: P 0.8: D 0.8.* Feb. to Dec. 1920 Structural Engr., Standard Oil Co. of California, San Francisco, on design of tanks, pipe-line structures, buildings and district plant layouts. *TT 0.8: P 0.8: RC 0.8: D 0.8.* Dec. 1920 to March 1923 Designing Engr., Bureau of Public Works, Manila, Philippine Islands, on design of port-works structures, beach-protection works, in executive charge of specifications and testing of materials for provincial public works; member of board drafting Manila Building Code. *TT 2.2: P 2.2: RC 2.2: D 2.2.* March to Sept. 1923 Structural Engr. with Macdonald & Couchot, San Francisco, on design of buildings, including complete structural design of department store and apartments. *TT 0.5: P 0.5: RC 0.5: D 0.5.* Jan. to April 1925 Structural Engr. with H. D. Dewell, San Francisco, on analysis and report on structural design of Sacramento filter plant. *TT 0.2: P 0.2: D 0.2.* Sept. 1923 to date (except Jan. to April 1925) Structural and Ventilation Engr., Estuary Subway, Alameda County, Cal., on design and construction of reinforced concrete vehicular subaqueous subway (\$4 500 000), including responsible charge and design of all ventilation features, equipment, specifications and ventilation equipment portal buildings. *TT 3.9: P 3.9: RC 3.9: D 3.9.* *TT 19.3: SP 4.3: P 15: RC 10.5: D 13.4.* Refers to M. C. Couchot, C. Derleth, Jr., H. D. Dewell, E. C. Earle, G. A. Posey, C. H. Sweetser, R. K. West.

1684

(11) **DAWSON, JOHN STANLEY**, Assoc. M., Box 1215, Tucson, Ariz. (Elected June 1, 1920). (Age 39. Born Bloomfield, Ky.) 1910 B. C. E., Univ. of Ky. *TT 4: SP 4.* Summer 1910 and Jan. to Sept. 1911 Rodman, Sept. 1911 to June 1914 Asst. Engr., on instrument work, locating and relocating railroads, staking out excavations, bridges and buildings, computations, estimates, design of culverts, retaining walls, etc., and June 1914 to Aug. 1916 Res. Engr. in charge of mountainous construction including bridges, tunnels, yard work and some water-supply work, all for Louisville & Nashville R. R., etc. *TT 5.8: SP 3.6: P 2.2: RC 2.2: D 2.2.* Oct. to Dec. 1910 Recorder, U. S. Engrs. *TT 0.2: SP 0.2.* Aug. 1916 to March 1924 (except Aug. 1917 to Dec. 1918 2d Lieut., Field Artillery, U. S. Army) with Kentucky Highway Dept., as Div. Engr. in charge of location, design and construction of highways and bridges, steel and concrete structures, in eleven counties, and (after Jan. 1921) Chf. Engr. of Maintenance, in charge of maintenance and reconstruction of highways and bridges; organized Maintenance Div. March 1924 to date not on engineering work. *TT 7.2: P 7.2: RC 7.2: D 6.* *TT 17.2: SP 7.8: P 9.4: RC 9.4: D 8.2.* Refers to W. J. Carrel, F. C. Dugan, J. F. Grimes, J. T. Madison, M. E. S. Posey, D. V. Terrell.

1685

(8) **DRAFFIN, JASPER OWEN**, Assoc. M., 210 Eng. Hall, Univ. of Illinois, Urbana, Ill. (Elected Nov. 9, 1920.) (Age 43. Born Noyan, Que., Canada.) 1913 B. S. in C. E., Univ. of Vt. 1916 M. S., Univ. of Ill. *TT 4: SP 4.* June 1913 to Sept. 1914 and June to Sept. 1916 field and office work with an engineering firm on city, highway and drainage engineering, surveying and some concrete design. *TT 1.5: P 1.5: RC 0.2: D 0.2.* Sept. 1914 to June 1915 and Sept. 1915 to June 1916 Research Fellow, Eng. Experiment Station, Univ. of Illinois, one-half of time on reinforced concrete and steel experimental work for the Station. *TT 1.5: P 1.5.* Sept. 1916 to June 1919 Instructor in Mechanics, Ohio State Univ. *TT 2.2: P 2.2.* Summer 1918 Testing and Engr., Emergency Fleet Corporation, Concrete Ship Div., experimental work. Summers 1917 and 1919 Inspector in charge of repairs on drawbridge, surveys of Federal Aid highway projects and design of steel and reinforced concrete bridges, and summers 1920-1925 Designing Engr. on design and investigation of steel and reinforced concrete bridges, all for Vermont Highway Dept. *TT 2.3: P 2.3: RC 1.8: D 1.8.* Sept. 1919 to June 1921 Instructor, Sept. 1921 to Sept. 1923 Associate, and Sept. 1923 to date Asst. Prof., Theoretical and Applied Mechanics, Univ. of Illinois. *TT 6.2: P 6.2: RC 3.2.* *TT 17.7: SP 4: P 13.7: RC 5.2: D 2.* Refers to H. E. Babbitt, J. L. Davis, T. W. Dix, M. L. Enger, M. S. Ketchum, A. N. Talbot.

1686

(1) **GARMEZY, SAMUEL**, Assoc. M., Atlantic, Gulf & Pacific Co., Manila, Philippine Islands. (Elected May 8, 1922.) (Age 35. Born in Russia.) 1913 C. E., Cornell Univ. *TT 4: SP 4.* July 1913 to April 1916 Detailer, American Bridge Co., at Trenton, N. J., and Ambridge, Pa. *TT 2.8: SP 2.8.* June 1916 to date (except Sept. 1926 to June 1927 post-graduate student in Civ. and Mech. Engr., Cornell Univ.) with Atlantic Gulf & Pacific Co. of Manila, Philippine Islands, Engrs. and Contrs. until Jan. 1918 as Designing Engr., in charge of all engineering, including construction of fuel-oil station, Aug. 1919 to March 1920 and Oct. 1924 to March 1925 Acting Chf. Engr., and remainder of time (about 7½ years) Chf. Designing Engr., on design of bridges, buildings, contractor's equipment,

equipment for sugar centrals, tobacco, hemp and cocoanut oil factories, wooden and steel scows, tanks, piers, etc.; also designed several sugar centrals. *TT 10.5: P 10.5: RC 10.5: D 10. TT 17.3: SP 6.8: P 10.4: RC 10.4: D 10.* Refers to E. C. Earle, T. H. Ellis, W. J. Grodskke, C. Russell, H. I. Shoemaker, L. C. Urquhart, E. S. von Plontkowski.

1687

(9) **KERCHER, HENRY**, Assoc. M., 3331 Glencairn Road, Shaker Heights, Cleveland, Ohio. (Elected April 18, 1916.) (Age 40. Born Germantown, Ohio.) 1910 C. E., Ohio State Univ. *TT 4: SP 4.* June 1910 to June 1912 with Mt. Vernon (Ohio) Bridge Co., as Detailer and Checker of shop plans for bridges, buildings, etc., and prepared shop plans for operating machinery for double-leaf bascule bridge at Washington St., Chicago. *TT 2: SP 2.* June 1912 to Jan. 1923 with King Bridge Co., Cleveland, Ohio, as follows: June to Nov. 1912 as Detailer and Checker of shop plans for fixed and movable railroad bridges; Nov. 1912 to March 1913 in Eng. Dept. making final computations and design for Detroit-Superior Bridge (591-ft. steel arch span), Cleveland, Ohio; March 1913 to Sept. 1917 Chf. Draftsman in charge of shop plans for bridges, buildings, turntables, etc., and on designs for railroad and highway bridges, mill buildings, traveling cranes, movable bridge machinery, etc.; Sept. 1917 to Jan. 1923 Asst. Chf. Engr., on designs for railroad and highway bridges, mill buildings, turntables, special shop equipment and machinery, and other engineering; made extensive statistical analysis of shop costs and study of shop operations. *TT 10.6: SP 0.4: P 10.2: RC 10.2: D 10.2.* Jan. 1923 to date with Cleveland Union Terminals Co., until May 1924 as Designer on estimates of cost of overhead bridges, railroad viaducts, overhead structures for electrification of railroads, large retaining walls, and building foundations; made and checked designs for various structures, and since May 1924 Asst. Engr. preparing estimates, also had charge and checked designs of large retaining walls (approx. 50 ft. high), railroad viaduct piers (35 to 80 ft. high, 4 and 5 tracks), design of foundations for Terminal Tower Bldg. (700 ft. above street, 735 ft. above footings), foundations under tower (diameter 9 to 10 ft., 206 ft. deep), etc. *TT 4.9: P 4.9: RC 4.9: D 4.9. TT 21.5: SP 6.4: P 15.1: RC 15.1: D 15.1.* Refers to W. P. Brown, C. G. Conley, F. L. Gorman, C. P. Marsh, C. T. Morris, F. D. Richards, I. M. Wolverton.

1688

(12) **McCLAIN, CARL ARTHUR**, Assoc. M., 1033 High St., Eugene, Ore. (Elected Sept. 12, 1916.) (Age 49. Born Emerson, Iowa.) 1906 B. S., and 1912 C. E., Univ. of Ore. 1916 M. C. E., Cornell Univ. *TT 4: SP 4.* Summer 1903 Recorder, U. S. Geodetic Survey, primary triangulation. Summer 1905 Foreman on sewer construction, Eugene, Ore.; J. P. O'Neill, Portland, Ore. 1906 to 1914 teaching Civ. Eng., Univ. of Oregon, being Asst. Prof. (1911 to 1913), and Prof. (1913 to 1914); also in private practice at Eugene, Ore., with a partner J. W. McArthur, engaged as follows: Nov. 1907 on preliminary plans and estimate for 2 000-h.p. hydro-electric power plant for F. L. Chambers; April to June 1908 laid out, planned and supervised grading of race track for Lane County Fair Association; May to Sept. 1908 Res. Engr. on proposed gravity water supply (not built); June to Sept. 1909 Res. Engr. on construction of canal and flume (about \$80 000) for hydro-electric power plant for City (F. C. Kelsey, Cons. Engr.); March to June 1910 Cons. Engr. on design and specifications for sewer system for Lebanon, Ore. (about \$50 000); July 1910 street plans, design and specifications for Harrisburg, Ore. (about \$6 000); June and July 1911 platting 880 acres into orchard tracts, with roads, and laying out townsites for Anderson Colony Orchards Co., Monroe, Ore.; Aug. 1911 to Jan. 1912 design and construction of concrete dam, and headgates, log canal and pond, grade for railroad spur, and survey of mill property, Lebanon (Ore.) Lumber Co.; July to Sept. 1913 Engr. on design, specifications and supervision of construction of reinforced concrete tile-lined swimming pool for Univ. of Oregon (about \$5 000); also various small sewer contracts. *TT 8: SP 2: P 6: RC 5: D 0.7.* July 1914 to Oct. 1915 Engr., Eugene Water Board, in charge of design and construction of concrete collecting chamber, submerged pipe-line and pump pit for new ground-water supply, and design and construction of 2 500 000-gal. reinforced concrete distributing reservoir. *TT 1.2: P 1.2: RC 1.2: D 0.5.* Oct. 1915 to June 1916 graduate student, and Oct. 1916 to June 1917 Instructor, Coll. of C. E., Cornell Univ. *TT 0.7: P 0.7.* June 1917 to June 1918 Constr. Engr., Div. of Water, Cleveland, Ohio. *TT 1: P 1: RC 1.* June 1918 to date Gen. Supt. and Secy., Eugene Water Board (equivalent to Chf. Engr.), in charge of plant extensions and operation of water and electric utilities; recently completed addition to hydro-electric plant, distribution reservoirs, pumps, supply conduit, distribution main, etc. (total additions about \$1 500 000). *TT 9.4: P 9.4: RC 9.4: D 0.7. TT 25.8: SP 6.6: P 19.2: RC 17.5: D 1.9.* Refers to R. E. Koon, W. C. Morse, H. N. Ogden, F. H. Stephenson, J. C. Stevens, R. H. Thomson.

1689

(11) **NALDER, WILLIAM HENRY**, Assoc. M., U. S. Bureau of Reclamation, Denver, Colo. (Elected April 1, 1914.) (Age 42. Born Waitsburg, Wash.) 1909 B. S. in Civ. Eng., Wash. State Coll. *TT 4: SP 4.* Nov. 1909 to date with U. S. Reclamation Service as follows: Nov. 1909 to Dec. 1910 Surveyman, acting as Draftsman and Detailer, Yakima, Wash.; Dec. 1910 to Jan. 1912 Jun. Engr., acting as Office Engr. in charge of drafting and designing, Naches, Wash. (8½ months), and on investigations, designs and estimates for storage dams, Yakima; Jan. 1912 to July 1917 Jun. and Asst. Engr., acting as Office Engr. in charge of drafting, estimates and designing, Ft. Shaw, Mont.; July 1917-Aug. 1926 Asst. Engr. and Engr., acting as Designer at Denver, Colo., on detail designs and in charge of designs of dams and canal systems; since Sept. 1926 Asst. Chf. Designing Engr. in charge, in association with Chf. Designing Engr., of all designing work for U. S. Bureau of Reclamation. *TT 18: P 5: RC 13: D 13.* *TT 22: SP 9: P 13: RC 13: D 13.* Refers to J. J. Doland, S. O. Harper, D. C. Henny, J. Hinds, I. E. Houk, J. L. Savage, R. F. Walter.

1690

(12) **STRANDBERG, EDWIN LEONARD**, Assoc. M., 7018 Palatine Ave., Seattle, Wash. (Elected Oct. 2, 1922.) (Age 42. Born Minneapolis, Minn.) 1912 B. S. in Civ. Eng., Univ. of Wash. *TT 4: SP 4.* Summer 1908 Rodman and Chainman, Seattle Park Board. Summer 1909 Computer, Washington State Highway Dept. June to Aug. 1910 Draftsman, City Engr.'s office, Seattle. *TT 0.2: SP 0.2.* Aug. 1910 to April 1911 and June to Dec. 1912 Draftsman, Bridge and Bldg. Dept., Chicago, Milwaukee & Puget Sound Ry., Seattle, detail and design work on timber trestles and bridges and concrete abutments. *TT 1.1: SP 1.1: D 0.4.* April to Oct. 1911 with H. P. Gillette on appraisal of property of Seattle Elec. Co., on listing and tabulations of track and bridge material. *TT 0.5: SP 0.5.* Dec. 1912 to June 1916 Instructor in Civ. Eng., Univ. of Washington. *TT 3.5: P 3.5.* June 1916 to Feb. 1917 and Sept. to Oct. 1917 Detailer and Checker, American Bridge Co., Gary, Ind. *TT 0.7: SP 0.7.* Feb. to Sept. 1917 Designer, Union Pacific R. R., Omaha, on steel bridges and shop buildings and reinforced concrete snow sheds (sent by American Bridge Co.) *TT 0.6: P 0.6: D 0.6.* Nov. 1917 to April 1918 Designer on reinforced concrete powerhouses for Stone & Webster, Boston. *TT 0.5: P 0.5: D 0.5.* June 1918 to Dec. 1920 Structural Engr., Vulcan Mfg. Co., Seattle, estimating, designing and detailing structural steel, roof trusses, girders, highway bridges, traveling cranes, tank towers, etc. *TT 2.5: P 2.5: RC 2.5.* Jan. to May 1921 Structural Designer, Colby Steel & Eng. Co., Seattle, mainly on design and details of hammer-head traveling crane built for Port of Tacoma. *TT 0.3: P 0.3: D 0.3.* June to Sept. 1921 Bridge inspection and design, King County Engr. *TT 0.2: P 0.2: D 0.2.* Nov. 1921 to date in private practice as Structural Engr. at Seattle, on estimates, design and supervision of construction of concrete, steel and timber structures, preparation of shop details on several steel highway bridges, etc.; work includes Rhodes Department Store (\$1 800 000), 4-story garage (\$240 000), tunnel with 17-ft. roadway under Vendome Hotel and First Ave. to Arcade Bldg., underpinning and framing for alterations to Arcade and Estabrook Bldgs. (\$100 000), stores, hotel and apartment buildings, churches, schools, garages, warehouses, retaining walls, transfer bridges for ferry landings, tanks, towers, etc., also Jan. to April 1921 and Sept. 1922 to April 1923 (part of time) Assoc. in Civ. Eng., Univ. of Washington. *TT 6: P 6: RC 6: D 3.2.* *TT 20.1: SP 6.5: P 13.6: RC 8.5: D 5.2.* Refers to P. N. Carlson, F. H. Fowler, H. L. Gray, C. C. More, C. D. Pollock, F. F. Sinks, V. C. Suckow.

1691

(10) **SWANK, CLYDE ELMO**, Assoc. M., P. O. Box 457, Lake City, Fla. (Elected June 1, 1920.) (Age 36. Born New Madrid, Mo.) Sept. 1912 to June 1913 student, Eng. Dept., Cornell Coll., Mt. Vernon, Iowa. *TT 0.5: SP 0.5.* May 1910 to Sept. 1912 Apprentice to a Civ. Engr., Charleston, Mo., Rodman, Instrumentman, drainage, levee and land surveys and construction, latter part of time as Chf. of Party. *TT 2.3: SP 2.3.* June 1913 to Oct. 1916 successively with a Civ. Engr. at Charleston, Mo., New Madrid (Mo.) Eng. Co., and finally member of firm, Wheeler & Swank, Civ. Engrs., Charleston, being Chf. of Party and designing and supervising construction, etc., county, levee and drainage districts, land reclamation, surveys, etc., part of time had charge of three field parties and office draftsmen. *TT 3.4: P 3.4: RC 3.4: D 2.8.* Oct. 1916 to Jan. 1921 (except 3 months in Officers' Training School, U. S. Army) County Highway Engr. of Mississippi County, Mo., last 4 years also County Surveyor; designed and supervised construction of twelve steel bridges, twenty wooden bridges, hard-surfaced and graded roads, also maintenance of graded roads (450 miles). *TT 4: P 4: RC 4: D 4.* Jan. 1921 to Nov. 1922 in private practice as Civ. and Cons. Engr., designed and supervised construction of roads (\$1 269 000), street pavements; flood-control levees (about \$500 000) largely on Mississippi River; drainage projects; acted as Chf. Engr. for many road, drainage and levee districts, largest 210 000 acres; also made investigations

for several districts and corporations and served as expert witness. *TT 1.7: P 1.7: RC 1.7: D 1.7.* Nov. 1922 to Sept. 1926 Member, Swank-Tanner Eng. Co., Civ. and Cons. Engrs., at Charleston, Mo., and (later) Lake City, Fla.; designed and supervised construction of improved roads (approx. \$2 000 000); drainage and levee work (\$3 000 000); street pavements (\$1 000 000) and sewers and water-works (\$1 000 000); also Cons. Engr. to several municipalities and Expert Witness in drainage and bridge matters. *TT 3.8: P 3.8: RC 3.8: D 3.8.* Sept. 1926 to May 1927 City Mgr. and City Engr., Lake City, Fla., designed and supervised construction of street pavements (approx. \$100 000) and sewer and water-works (\$100 000), since May 1927 ill. *TT 0.7: P 0.7: RC 0.7: D 0.7.* *TT 16.4: SP 2.8: P 13.6: RC 13.6: D 13.* Refers to H. E. Frech, L. L. Hidinger, F. D. Hughes, F. G. Jonah, F. Kersting, H. M. Lewis, H. H. Lotter, R. I. Randolph.

1692

(14) **WELLER, CURTIS D.**, Assoc. M., Englewood, Mo. (Elected Nov. 25, 1919.) (Age 38. Born New London, Iowa.) 1913 B. S. in C. E., Iowa State Coll. of Agri. and Mech. Arts. *TT 4: SP 4.* July 1913 to June 1914 Asst. to Erecting Engr., Compania Mexicana de Petroleo El Aguila, on construction of oil refinery at Tampico, Mexico, on unit cost and progress report, etc. *TT 0.9: P 0.9.* July 1914 to Feb. 1920 with Guthrie County, Iowa, until Jan. 1916 as Asst. to County Highway Engr., on surveys, inspection on bridge and culvert construction, plans, reports, then County Highway Engr., in responsible charge of all road and bridge construction, maintenance and repair. *TT 5.6: P 5.6: RC 4.1: D 4.1.* March 1920 to Aug. 1925 with Iowa Highway Comm., until March 1921 as Res. Engr. on road construction, then Asst. Dist. Engr. on supervision of construction and maintenance, surveys, plans and reports. *TT 5.4: P 5.4: RC 5.4: D 4.4.* Jan. 1926 to date with Harrington, Howard & Ash, until Aug. 1926 as Res. Engr. on bridge construction at Ottawa, Kans., then in office at Kansas City, Mo., detailing and checking, and since July 1927 Res. Engr. on project at Alton, Ill., consisting of bridge over Mississippi River and one over Missouri River with over 5 miles of connecting roadway. *TT 1.8: P 1.8: RC 0.9. TT 17.7: SP 4: P 13.7: RC 10.4: D 8.5.* Refers to L. R. Ash, R. W. Crum, E. E. Howard, F. H. Mann, L. M. Martin, H. C. Tammen.

FROM THE GRADE OF AFFILIATE

1693

(10) **SAMUEL, PHILIP TUSTIN**, Affiliate, U. S. Engr. Office, Florence, Ala. (Elected Dec. 14, 1925.) (Age 44. Born Knoxville, Tenn.) Feb. 1900 to Nov. 1901 Draftsman, Tennessee Producers Marble Co., Knoxville, Tenn. *TT 1.8: SP 1.8.* Dec. 1901 to July 1904 Inspector and Draftsman, Post Office Dept., Knoxville and Nashville, Tenn. *TT 2.6: SP 2.6.* Nov. 1918 to date with U. S. Engr. Office, Florence, Ala., until June 1923 as Purchasing Agt. for Wilson Dam, and since July 1923 Asst. Chf. of Supply Div., on construction of same dam, in responsible charge of purchase, transportation and storage of material and equipment, preparation of specifications and contracts and supervision of Finance Dept. Since Jan. 1926 also in charge of sale of surplus equipment and material, and since June 1926 Chf. Clerk, Florence Dist., Engr. Dept. at Large. *TT 9: P 9: RC 4.4. TT 13.4: SP 4.4: P 9: RC 4.4.* Refers to M. Elliott, T. A. Forbes, R. B. McWhorter, J. C. Stiles, M. C. Tyler.

FROM THE GRADE OF JUNIOR

1694

(7) **AEGERTER, WILLIAM CARL**, Jun., 2423 College Ave., Kalamazoo, Mich. (Elected Nov. 15, 1926.) (Age 27. Born Randolph, Nebr.) Registered Civ. Engr., State of Mich. 1922 B. S. in C. E., Univ. of S. Dak. *TT 4: SP 4.* Summer 1920 Rodman, South Dakota Highway Comm. Summer 1921 Rodman and Draftsman, Albert Lea (Minn.) Farms Co. June to Aug. 1922 Levelman in charge of party, James and Big Sioux Drainage Comm., Pierre, S. Dak. *TT 0.2: P 0.2.* Aug. 1922 to March 1923 Deck Officer, U. S. Coast and Geodetic Survey, acting as Instrumentman. *TT 0.7: P 0.7.* April 1923 to April 1924 Jun. Engr., Illinois State Highway Dept., 3 months as Technical Observer at Bates Road, 3 months on field inspection of materials, and 6 months on bridge design. *TT 1: P 1: D 0.5.* May to Aug. 1924 Estimator and Designer of reinforced concrete building construction, and Aug. 1925 to Feb. 1927 Structural Engr. on estimates and designs of fireproof buildings, Capitol Steel Corporation, Lansing, Mich. *TT 1.7: P 1.7: RC 1.5: D 1.7.* Sept. 1924 to Aug. 1925 Asst. Prof. of Civ. Eng., Clemson Coll., S. C. *TT 1: P 1: RC 1.* Feb. 1927 to date Field Engr., Portland Cement Association, Detroit, Mich., in charge of educational and promotional work

in eleven counties of Southwestern Michigan. *TT 0.8: P 0.8: RC 0.8. TT 9.4: SP 4: P 5.4: RC 3.3: D 2.2.* Refers to W. Bintz, J. M. Brown, E. L. Clarke, L. C. Kingscott, D. F. Stockbridge, J. H. Wasson.

1695

(1) **BARNES, GEORGE ERIC**, Jun., Puerto Cabezas, Nicaragua. (Elected Oct. 15, 1923.) (Age 29. Born Washington, D. C.) 1923 S. B., Mass. Inst. Tech. *TT 4: SP 4.* Summer 1920 Chairman and Transitman, Boston & Maine R. R. Summer 1921 Transitman and Res. Engr., Massachusetts State Highway Comm., on highway relocation, lines and grades on bridges, etc. Summer 1922 Asst., Dept. of Civ. Eng., Massachusetts Inst. of Technology, at summer camp, Machias, Me., instructing and supervising field survey parties. June to Sept. 1923 Asst. Engr. being Constr. Engr., Metropolitan Dist. Comm., Sewerage Div., Boston; Res. on 30-in. force main, tunneling, piling, etc., and pump installation. *TT 0.2: P 0.2: RC 0.2.* Sept. 1923 to date (since June 1927 on leave of absence) Instructor, Asst. Prof. and Assoc. Prof. of Civ. Eng., Univ. of Florida, in charge of several courses also summer 1924 Research Engr., Florida Asphalt Block Paving Co., Tampa, in control of design of mix, testing, breaking in of inspectors, organizing routine control methods, etc.; summer 1925 Associate Engr., Main Eng. Co., Daytona Beach, Fla., preliminary studies, reports, designing water-supply, sewerage and paving projects, for Dania, White Springs and Cedar Keys, Fla., etc., comprising wells, pumping stations, reservoirs, distribution systems and sewerage layouts; summer 1926 in private practice, surveys, extension of water lines on campus, survey, design and construction of Imhoff tank (450 000 gal. daily), trickling filter plant sewerage system and paving on campus and report on fire protection, for Univ. of Florida. Summer 1927 Asst. Engr. with Metcalf & Eddy, Boston, being Designing Engr., studies and design of spillway dam and channel, gatehouse, intakes and construction of by-pass channel for Johnstown North Fork Dam; since Oct. 1927 Hydr. and San. Engr., Standard Fruit & Steamship Co., on study, report and design of water supply and sewerage system for Bragmans Bluff Lumber Co., at Puerto Cabezas, Nicaragua. *TT 4.2: P 4.2: RC 4.2: D 3.7. TT 8.5: SP 4: P 4.5: RC 4.5: D 4.2.* Refers to C. C. Brown, C. E. Burleson, H. P. Eddy, G. B. Hills, J. H. Kimball, H. J. Morrison, P. L. Reed, C. M. Spofford.

1696

(1) **CHEW, RUSSELL WAGNER**, Jun., 701 Orange Ave., Cranford, N. J. (Elected Nov. 15, 1926.) (Age 26. Born Philadelphia, Pa.) 1922 B. S. in C. E., Univ. of Pa. *TT 4: SP 4.* June 1922 to date with McClintic-Marshall Co. as follows: June 1922 to May 1923 Draftsman on structural steel detailing; May 1923 to Sept. 1924 Asst. Engr., estimating and designing structural steel; Sept. 1924 to Jan. 1925 Timekeeper and on general engineering; Jan. to Nov. 1925 (loaned to H. G. Balcom) Engr., designing structural steel and concrete for office buildings, since Nov. 1925 Engr., acting as representative with general contractors, architects and consulting engineer. *TT 5.3: SP 1.5: P 3.8: RC 1.9: D 1.4. TT 9.3: SP 5.5: P 3.8: RC 1.9: D 1.4.* Refers to H. G. Balcom, D. S. Gendell, Jr., E. A. Gibbs, M. S. Ketchum, R. A. Pendergrass, G. L. Taylor.

1697

(12) **JORGENSEN, JORGEN KAVLIE**, Jun., Box 1101, Medford, Ore. (Elected March 15, 1926.) (Age 30. Born Bergen, Norway.) 1923 Diplom Ing., Civ. Eng., Norges Tekniske Høiskole. March to Oct. 1918, Dec. 1918 to Jan. 1919 and June to Sept. 1919 Topographical Surveyor and Draftsman with Jens Skjerdal, Cons. Engr., Bergen, Norway, in charge of surveying for five hydro-electric power-plant sites, computed field notes, worked up maps, some structural design. Aug. 1920 to Jan. 1921 Draftsman, Gyldenpris Slip & Mek. Verkstaed, Bergen, on design of cranes, forge-hammers and machinery. Nov. 1923 to March 1924 Draftsman, Union Carbide Co. (Linde Air Products), New York City, detailing for acetylene generators, structural steel machinery supports, etc. *TT 0.4: P 0.4.* May 1924 to Dec. 1926 Designing Draftsman, California Oregon Power Co., Medford, Ore., structural and hydraulic design on dams, intakes, tunnels, penstocks and penstock anchors, power-house substructure (development 40 000 h. p.) at Ccpco, Cal., and preliminary design for hydro-electric development (66 000 h. p.) at Prospect, Ore., design of concrete reservoirs for small city water supplies, survey work on power lines, Chf. of parties for survey and investigation of power-plant sites in Southern Oregon. *TT 2.7: P 2.7: RC 0.6: D 2.* Jan. 1927 to date Constr. Engr., Byllesby Eng. & Management Corporation, Chicago, Ill., in charge of engineering work on forebay, intake, woodstave pipe-lines, surge tank, steel penstocks, power-house and switch-yard at No. 2 Plant (66 000 h. p.), Prospect, design and layout of structures, etc. *TT 0.9: P 0.9: RC 0.9: D 0.5. TT 8: SP 4: P 4: RC 1.5: D 2.5.* Refers to A. H. Aass, A. P. Andersen, J. F. Partridge, C. N. Romanowitz, E. G. Waters, J. V. Zahlen.

1698

(9) **KAMINSKY, MORRIS MOSES**, Jun., 952 South Illinois St., Indianapolis, Ind. (Elected Nov. 15, 1926.) (Age 26. Born Indianapolis, Ind.) Licensed Civ., Elec. and Mech. Engr., State of Ind. 1926 B. S. E. E., Purdue Univ. TT 4: SP 4. Jan. to June 1918 Instrumentman, Pittsburgh, Cincinnati, Chicago & St. Louis R. R. June 1918 to Sept. 1924 with Chas. Brossman, Cons. Engr., Indianapolis, Ind., as Designing Engr. on reinforced concrete arches, buildings, retaining walls, brick and reinforced concrete smoke stacks, power plants, sewerage systems, water-works distribution systems, earth and concrete dams, movable gates for hydro-plant, heating and ventilating systems, reservoirs and industrial plants. TT 5.2: SP 3.4: P 2.2: RC 2.2: D 5.2. Sept. 1924 to June 1926 student, Purdue Univ.; also on structural design, on buildings for architects, and designed long-span reinforced concrete arch at Huntington, Ind.; June 1926 to date with W. J. Holliday & Co. (reinforcing steel fabricators), Indianapolis, in charge of design of reinforced concrete buildings; designed Fountain Sq. Theatre (\$500 000, structural), State House Annex (5 stories), hotel (12 stories), sewage-disposal plant for Knightstown, Ind., and many small buildings; at present also Cons. Engr. on design of a small municipal sewage-disposal plant. TT 1.4: P 1.4: RC 1.4: D 1.4. TT 10.6: SP 7: P 3.6: RC 3.6: D 6.6. Refers to H. O. Garman, C. M. Geupel, B. Kay, J. W. Moore, H. F. Passel.

1699

(1) **LIEBESKIND, MORRIS MOE**, Jun., 1931 Walton Ave., Bronx, New York City. (Elected Feb. 25, 1924.) (Age 27. Born Tomashov, Russia.) Licensed Prof. Engr., New York State. 1921 C. E., Cornell Univ. TT 4: SP 4. June to Sept. 1920 and April 1922 to Feb. 1924 Structural Draftsman, American Bridge Co., Trenton, N. J., detailing structural steel and designing and laying out details for office and mill buildings. TT 1.8: SP 1.3: P 0.5: D 0.5. March 1924 to date Structural Engr., Thompson-Starrett Co., New York City, designing, estimating and erecting structural steel for office buildings, apartment hotels and theatres, checking steel designs; supervised steel erection of Paramount Theatre and Office Bldg., Equitable Trust Co. Bldg., and Erlanger Theatre, all in New York City. TT 3.5: P 3.5: RC 3.3: D 1.2. TT 9.3: SP 5.3: P 4: RC 3.3: D 1.7. Refers to F. A. Barnes, A. C. Grandy, G. Simpson, J. E. Wadsworth, S. H. Widdicombe, O. Wolpert.

1700

(4) **MILLER, FRANK WILLIAM**, Jun., 18 South Muhlenberg St., Allentown, Pa. (Elected June 19, 1922.) (Age 31. Born Reading, Pa.) 1921 C. E., Lehigh Univ. TT 4: SP 4. Summer 1915 Rodman and Chainman with E. Kurtz Wells, Contr. and C. E., Reading, Pa. Summer 1916 Tracer, Pennsylvania R. R. Co. Summer 1920 Instrumentman with L. H. Focht, Contr., Reading. June 1921 to date with Lehigh Structural Steel Co., Allentown, Pa., until Oct. 1925 estimating, designing, detailing and sales work, and since then Sales Engr. TT 6.3: SP 4.3: P 2: RC 1.5: D 0.5. TT 10.3: SP 8.3: P 2: RC 1.5: D 0.5. Refers to S. A. Becker, M. O. Fuller, W. H. Mohr, H. B. Thorn, W. L. Wilson.

1701

(10) **OLSON, HOWARD OSCAR**, Jun., 1711 Primrose Ave., Nashville, Tenn. (Elected Oct. 1, 1926.) (Age 26. Born Benson, Minn.) 1922 B. S. in C. E., Univ. of S. Dak. TT 4: SP 4. June to July 1922 Asst. County Engr., Emmons County (Linton), N. Dak. TT 0.1: SP 0.1. July 1922 to March 1923 Deck Officer, U. S. Coast and Geodetic Survey, Washington, D. C., on surveys, triangulation and navigation. TT 0.7: P 0.7. March 1923 to May 1925 Jun. Engr. and Asst. Engr. of Materials, in charge, under Dist. Engr., of inspection and testing, Illinois Div. of Highways, Springfield, being Inspector on Bates Experimental Road (5 months), and on special investigational work. TT 2.1: SP 0.5: P 1.6: RC 1.6. May 1925 to date Div. Engr. of Tests (Div. Materials Engr.) and Asst. Engr. of Tests, Tennessee Dept. of highways, Nashville, inspecting, testing and supervising materials for all construction work, research work and reports on materials, concrete, pavements and culverts, in complete charge of all plant inspection. TT 2.5: P 2.5: RC 2.5. TT 9.4: SP 4.6: P 4.8: RC 4.1. Refers to E. D. Akers, J. M. Brown, C. M. Colvin, R. S. Lillard, J. E. Moreland, C. H. Olmstead, W. H. Wilson.

1702

(15) **READY, ARTHUR GEORGE**, Jun., Care, The Brown Paper Mill Co., Monroe, La. (Elected July 6, 1920.) (Age 31. Born Albany, N. Y.) 1917 B. S. in Civ. Eng., St. John's Coll., Brooklyn, N. Y. TT 2: SP 2. Summer 1915 Timekeeper, Tremper Constr. Co., Brooklyn, N. Y. Summer 1916 Transitman, and June 1917 to March 1918 Asst. Engr., Civ. Eng. Dept., in office and field at embarkation station, Newport News, Va., in charge of septic tank construction, for Westinghouse, Church, Kerr & Co. of New York. TT 0.8: SP 0.5: P 0.3: RC 0.3. April 1918 to May 1919 with U. S. Navy. May 1919 to Dec. 1920 with Westinghouse, Church, Kerr & Co., as Field Engr. on industrial construction in vicinity of New York.

TT 1.7

N. J., a
Field E
1922 R
Truesde
with G
N. J.
Asst. I
Wash.,
RC 4-
P. A. T

(1) RC

Nov. 1
and T
1920
progre
Forem
out w
compl
1924
New
Asst.
stores
son &
to da
const
York
to H

(1) S

15, J
to M
York
Topo
piled
man
way
men
TT
W.
Bur

(13)

7,
TT
ing
Sup
mo
P
str
en
Ju
D
A.

th

TT 1.7: SP 0.5: P 1.2: RC 0.5. April to July 1921 with Henry R. Kent & Co., Rutherford, N. J., as Field Engr. on power plant at Lockhaven, Pa. **TT 0.3: P 0.3.** July and Aug. 1921 Field Engr. on surveys and designs for paper mill improvements, and Dec. 1921 to Dec. 1922 Res. Engr. on a high school and a factory building, Pearl River, N. Y., with Walter E. Truesdell, Cons. Engr., New York City. **TT 1.2: P 1.2: RC 1: D 0.2.** Oct. and Nov. 1921 with George L. Watson, Cons. Engr., as Estimator on design of sewerage system for Clifton, N. J. **TT 0.2: P 0.2.** Jan. 1923 to date with George F. Hardy, Cons. Engr., as Draftsman, Asst. Res. Engr. and Res. Engr. in charge of pulp and paper mill construction at Everett, Wash., and Monroe, La. **TT 4.8: SP 1.6: P 3.2: RC 2.3: D 0.6.** **TT 11: SP 4.6: P 6.4: RC 4.1: D 0.8.** Refers to E. J. Beugler, G. W. Burpee, G. F. Hardy, A. F. Hartman, P. A. Trost.

1703

(1) ROSS, FRANKLIN WILLIAM, Jun., 306 Orient Way, Rutherford, N. J. (Elected Nov. 15, 1926.) (Age 28. Born Grand Junction, Colo.) June 1919 to April 1920 Rodman and Transitman with W. L. Whitmore, Civ. Engr., Paterson, N. J. **TT 0.8: SP 0.8.** April 1920 to Nov. 1921 Field Engr., J. W. Ferguson Co., Paterson, in charge of layout work, progress reports, estimating, etc. **TT 1.6: SP 0.8: P 0.8.** Nov. 1921 to Dec. 1923 Gen. Foreman and Field Engr., Frederick Snare Corporation, New York City, supervision and layout work. **TT 2.1: SP 2.1.** Dec. 1923 to May 1924 with New York Steam Corporation, in complete charge of installation of 20-in. and 24-in. steam mains. **TT 0.5: SP 0.5.** May 1924 to Jan. 1925 Chf. Inspector and Asst. to Res. Engr., Kenn-Well Contr. Co., on 14th St., New York Edison job, estimating, layout and supervision. **TT 0.7: P 0.7.** Jan. to Dec. 1925 Asst. Supt. of Constr., Haenachen Eng. Co., Paterson, in charge of construction on apartments, stores, dwellings, etc. **TT 0.9: P 0.9: RC 0.9: D 0.4.** Dec. 1925 to March 1926 with Sanderson & Porter, on structural inventory of industrial buildings. **TT 0.2: P 0.2.** March 1926 to date with Golden Park Beach Realty Corporation as Supt. of Constr. in charge of design and construction of 180 two-family houses and at present Gen. Supt. in charge of all work in New York City. **TT 1.1: P 1.1: RC 1.1: D 0.5.** **TT 7.9: SP 4.2: P 3.7: RC 2: D 0.9.** Refers to H. J. Carroll, F. E. Cudworth, J. H. Gaynor, R. C. Latimer, A. Mazeau, T. K. Thomson.

1704

(1) SAMMARCO, SERGIO FRANCIS, Jun., 520 Ninth Ave., Astoria, N. Y. (Elected Jan. 15, 1923.) (Age 28. Born New York City.) 1922 B. S. in C. E., Cooper Union. Aug. 1917 to March 1919 Jun. Draftsman, Grade B, Dept. of Water Supply, Gas and Electricity, New York City, kept records, made drawings, etc. **TT 1.6: SP 1.6.** March 1919 to June 1923 Topographical Draftsman, Grade C, Dept. of Taxes and Assessments, New York City, compiled tax maps, made surveys, etc. **TT 4.3: SP 4.3.** June 1923 to date Topographical Draftsman and Asst. Engr. (Grade D), Office of Borough Pres., Queens, New York City, on highway contract drawings, design of drainage plans for sewerage. Since May 1925 (supplementary terms) also Instructor of Surveying, Stevens Inst. of Technology, Hoboken, N. J. **TT 4.4: P 4.4: RC 2.2: D 3.2.** **TT 10.3: SP 5.9: P 4.4: RC 2.2: D 3.2.** Refers to W. W. Brush, A. K. Johnson, F. B. Nelson, J. F. Perrine, J. C. Riedel, A. W. Tidd, M. H. Van Buren.

1705

(13) SAPH, AUGUSTUS VICTOR, Jun., 2330 Durant Ave., Berkeley, Cal. (Elected March 7, 1921.) (Age 31. Born Oakland, Cal.) 1917 B. S., Coll. of Civ. Eng., Univ. of Cal. **TT 4: SP 4.** May to June 1917 Instructor, Univ. of California Summer School of Surveying. **TT 0.1: P 0.1.** June to Aug. 1917 Draftsman, Eng. Dept., California & Hawaiian Sugar Refining Co. **TT 0.2: P 0.2.** Aug. 1917 to June 1919 in U. S. Service, about 10 months on structural drafting, Public Works Dept., Mare Island (Cal.) Navy Yard. **TT 0.8: P 0.8.** June 1919 to March 1920 with A. V. Saph, Cons. Engr., San Francisco, on design and structural drafting. **TT 0.7: P 0.7.** March 1920 to date in private practice of structural engineering (continuing office of A. V. Saph, Sr.); since autumn 1926 also instructing Junior and Senior Civ. Eng. classes at St. Mary's Coll., Oakland, Cal. **TT 7.7: P 7.7: RC 7.6: D 4.5.** **TT 13.5: SP 4: P 9.5: RC 7.6: D 4.5.** Refers to A. A. Brown, C. Derleth, Jr., A. W. Earl, F. S. Foote, F. T. Oakley, E. J. Schneider.

The Board of Direction will consider the applications in this list not less than thirty days after the date of its issue.